

FIGURE 1

1 ggatccagaa taaccaaaaac aatattgaaa aataaagaac agcggtggtg gattaacatt
61 ttccaatttc aaaacttact atagcactgc ggtaatcaag cagtgtggca ctgtatagca
121 tgtacattac agatcagtgg actagaatca atgtccagaa ataaaccgtt atgtttataa
181 tgaattactt ttaataagg tgtcaagaca acgcaatggg aaaagaataa tgaattcaac
241 aaatgatgca tggacaaccg gacatgcaca tgcaacacaa tgaattgaa ttcttctatc
301 gctccatgca taaaaactaa ctcaaaatgg gtcacggatg taaatgaaaaa gctaaaaacta
361 taataatcct agagggaaaac ctaggagtaa atctttaaga ttttattgtt ggcagtgggt
421 tctcagatag gaccccaaaa tcacaagcga caaaaagaaa ttggacttaa agttaaatac
481 ttttgcttcaa acatcat caagaaatg aaaacacaac ccgcagaagc aataaaaatg
541 tctgttaagtc atgtatccga ttagagactt ctatccagga tatataaata atgcaattca
601 atgataaaaaa agataaatag cccagttttc caaagagtca agcatctgaa tatacatctc
661 tccaaaaata tacagatatac caacaagcat gtgaaaagat gttcaaagcc atttgcagg
721 tgacaaaacc caagacagta tgaggagatg ctacaggac tctgtgtt cacagacatg
781 aagcggttgtt gagaatgttag gcagccgcct ttggggactt cacatccccg ccgcgcac
841 cacggtgagc tagtgtttaa acttagccga gatcaataca cgcgactgtg tgcccgtag
901 accctgcgtt gcccggggg ctgggagagg cgggcgcag gagtggcgg gaacctgggg
961 gtcaggcccc agccgcggga agcgcgcaca ggagcgcgcg aaaccccttc cacacccttc
1021 caggcatttg cccgcgcga ttcaagagagc cgacccgtga cccctggcct cccctagaca
1081 gccccgcatg tccagatgtg ccgtccgc tgcctccgc gaccactggc catctctggg
1141 cctggcgcgc gttctcggcg cccggcctgc cccgcgcagg agccgcaggt ccagccagtg
1201 aagaagccccg cgccctgaagg agcctctgtg ctccagaatc catcctcagt atcagcgctg
1261 ggtggccctc ctccaggaag ccctctgtat tctctcatgg gtcgccttc ctctgcagac
1321 tccggagca cccctgcctc caagtaccgc aagtggcaact gagaacttgg ggagagcaga
1381 ggctgtgcct agattttag ggagtccccg cagctccacc ccagggccta caggagcctg
1441 gccttggcg aagccgaggc aggccaggcag ggcaaagggt ggaagcaatt caggagagaa
1501 cgagtgaacg aatggatgag gggtggcagc cgagggtgcc ccagtccccct ggctgcagga
1561 acagacacccct cgctgaggag agaccccgaga gcgaggcccc tggcccgccc gaggcgaggt
1621 cccgccccagt cggcgcgcgc cgtgaagagt gggagagaag tactgcgggg gcggggcg
1681 gggcgggggc gggggcgccc gcagccggga gcctggagcc agaccggggc gggggcgccc
1741 ccggggcccg ggaccagtgg tgggaggagg ctgcggcgct agatgcggac acctggaccg
1801 ccgcgcgcag gctccggcg ctgcgtgcct ccgcggcccc cgccatgcctt ccctacacgg
1861 tcaaccgtggc cactggcagc cagtgggtcg ccggcactga cgactacate tacctcagcc
1921 tcgtggctc ggccggctgc agcgagaagc acctgctgga caagcccttc tacaacgact
1981 tcgagcgtgg cgccgtgagc gccccggggg cacgggtgga ggcgcggcgtg aggtgcgtcc
2041 gggaccccggt ttggacggca gaggccctggg cggggcgccc gagggcccggt cggggcgccc
2101 cggacaggac tgggggtgtc caggaccctg tcaggagagg cagaactgcg gtggggcggt
2161 ccctgggctc ccagtggcg gtgggtacc

FIGURE 2

1 ttgcacgctn ctcagccccg gctgtactat tggtctcac ac gttccatcg ggtttgctc
61 acccatcaac ccacccatcta cattaggat ttctccata gctctcttc cccttgc
121 ccaccctcta acacgcctg ttgtgtatg ttgacccccc tggatcattg tggatcattg
181 gtacaactcc tgcttatgag tgacaacatc tgctgatc tggatcattg
241 tgagaatgat ggttccatc ttcacccctg tacctgcaaa gacatgaac tcaccc
301 atatggctgc tttagaatccc acagtataga tggccctcat tttcttatac
361 ttgatggca tttgggttgg atccaagact ttgttattgt
421 tacgagtgca tggatcattt tggatgaaat attgataatc
481 atgggattgc tggaccta at ggttgcctg gatcctgatc
541 tcttacagtg taaaagtgtc tctatataata ctcatccct
601 actcttaat catcaacett cttactgag agagaaggat
661 ccttaatca aatttgtt ggacccttcc caacttactt
721 cttacgcccc ac ctttgtatgg ggcagtttt ctcgttatac
781 ctttttttta actctttga agaccgtt atctgaacaa
841 ggcgggttac aaccctgaa agttcttt ttttttgg
901 tcccttcgga ccaatttgcc ttttgttgc aaggaatttt
961 ttttccca ggcacacagg ttagtgcc ttccccagaa
1021 tggtaaaaatg gggaaatttt taaacctcc
1081 taaggccgtt ttcattttnnn nnnnnnnnnnnnnnnnnnn
1141 nnn
1201 ggtcttcagc ccgtgtgaa gactgattaa cagtcataag
1261 ctgtaaagaaa catacagtct cacacaatta ggcaaggagt
1321 gcatagattc aaaccctgtat gccacaactt atgtaaccc
1381 cacatgacag gagaatctca tcatgtaccc
1441 attcaatgaa aaagtatgta aagtttctat catttacta
1501 ccactttatt cacttctgt taagcctgaa agaagtactg
1561 ttcacaaaat ataatttgag cactgattac tcaataagca
1621 atcagcaaat gatggctgac atagaggaaa tggatc
1681 ctgtatcaa ggactgagat tcttccactt aggacatgt
1741 aaatttacag aaagataacct ggccaaaacac cccaaatagtt
1801 ctgaaaaaca ccccatgaa atttttaaag attataatgt
1861 aaccataaca aaaattgttag gatacagaa aactggct
1921 cattacatt tagagaatca acttaattca attatcta
1981 gtaaaaaaaag gagagcatat taaaaaaatg agcagaagaa
2041 caatgaaatt gaaaatggaa aatcataga gaagaatcaa
2101 tggaaaagat caataaataa aattggttga tataatttac
2161 ataatcaactg atcatagatc catgatgaac aagcttattt
2221 caacttcaac aaaatggaca gattacttgg aagacaccaa
2281 agaatctaaa tagtcctata tttatgaaaa aaaaaaaacaa
2341 actttgcccc aaagaaaatt ttaggttccat atgggttcc
2401 gtaagaataa tatcaattct acacaaactc attcaaaaaaa
2461 caacacgttc tgcaaggctca gtattaccct gataccaaaa
2521 cgacaccaat atccttcatg aacatagatt cttcaccac
2581 nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
2641 nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
2701 gaatataaga gattaggctca cagcgttgc tactccact
2761 taattccact ttgcaaaatg gacattttt ttcctcttg
2821 tggccagga taatcccttag tatcaactgt aaaatatc
2881 tatttcagtg ggtgttata tgcttttgg tgcata
2941 atgtgggctc cagatagtga ctcaatctcc agaaatcata
3001 tttctatatt ggcacacaa aataatccac ttgtcatagg
3061 catggagctg tgctgaggaa tctgcccattt ttcttatacc
3121 cacaggcccc aatcattgtc tatcaaaaaaa catgcttgc
3181 aaggaagcaa gatctttcc tcaagcattt aagtggac
3241 agacactgng gatcaaattc tggaggtt aaaaatcccc
ataactcaact ggatagaaat

FIGURE 2 (cont.'d)

3301 tcaaaatgct cgctatgttgcattctatgat caacttccaa ggggacctt ntacccctt
3361 tcttcatcag caagcaacta cattgatttt gtagcccgagg atctattccc acgtcaaccg
3421 tgggttccaa atgtttgctc tagctcaatg gcctcttaag ccactaacc aatatgttgc
3481 ttttaccag taaaaaaagtg catctgggga ataagttggt gtatatttg gtgtcagccaa
3541 gcccatagat cgtccagagg accccaggct taggaggaat cctcagattt gagagccact
3601 gtcctgtatg atgcagatag cacagcttt cctgaaaata ggaattcaaa tgaggaaaaaa
3661 tgaaaactct cctaatttt ttcttctgcc tctttcattt caagctcatc taatttatcat
3721 gctcttattgt gaagaatcaa agaaaagaact cataaaatata ctttttgtc ctgtatffff
3781 aatgtacgtt gtgcattgtaa gcctttgtgg ttaagcaaat gtcaagaaaa tccctagttcc
3841 cattgcttac agtcaatatg gggcaattca agcaaaagtat atgcctctaa tatgttgg
3901 aaattctgaa agttcagaaa aaatgttgc acttcagcca tctgatgtta ctggatattt
3961 agaatgagac ctccctctccc tctgcttcc tcatttccat ctccctccccc ctcttctcc
4021 tctctccctc tccttatttc tccttctccc tcctctctc ccatgcttac tccctccctc
4081 ttctccctct ttcttctta ttctccttct ccctcctctc tctctctccc tttttccctc
4141 ctttcctctc ctccctccct ctcccttattt ctccctctcc ctccctctc tctctcccc
4201 ttttcctata ttcccagatt aggccatttt caaaactggt taaacattcc caaaagcat
4261 ttatgacaga gaattgacta ggatctcacc tgaatcacag agttgccc ttgaacacag
4321 gcaaagatca agccattttc tcttgcattgt atgcttcagc attttatgca ttgaaacaaa
4381 attttatgta aaaaaaaagct tagcccttt gtgacgggaa ttccctttctt ggtatctg
4441 ccaaagaatc aagacccaaac gtccagctt tcaaattttc tctggaccc tannnnnnnnnn
4501 nnn
4561 nnn
4621 aaagtagttt ttccaattt tgtgaagaat gtcatggta gcttgcattttt gatggactg
4681 aagattttct tcattttttt gactgcata gattccatgg atgatattgtt ccacattttc
4741 ttatccaat tcactgttgg tgggcaccta ggtcaattcc atgactttgc tttgtgaat
4801 agtactgcaa tgaacatgtg agtgcattgt tctttttgg ggaataattt ttctctttt
4861 ggatataatacc ccaagtaatgg ggtgctggg ccaaattggta gttctttttt aagttcttt
4921 agaaaatctcc aaactgcattt ccacagaggc tgaactaattt gacattccca ctgcatgca
4981 tgagcattcc cttttctctt cagctccacc aacatctgtt gcttctgac ttttgataaa
5041 tagccattct gatgtgttag atggtagccc attgggggattt ctttttttt tttaagaca
5101 gagtctcaact ctgtcacca ggctgtggca caatgttggc tcgctcaac ctgcctcc
5161 tgggttcaag tgatttctctt acctcagccctt actgagaagc tagggttaca ggcaccc
5221 accacaccca gctaattttt gtatttttgg tagagacagg gtttagccat atggcaagg
5281 ctggctctca actcctgacc tcaggtgacc cacctgcctc ggctcccaa atgctgggaa
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5401 atgatccttt tttcatacat ttgttggcca ctgtatgtc ttcttttgag aagtgtctgt
5461 tcataatctt tgcccatattt tcaatggggt tggggggccat ttgtccagtt gtttaagtt
5521 ttatagatt ctggatatta gtcctttgtt ggggcataa tttgcaataa ttatctca
5581 ttctgttaggt tatctattt atctgttgat agtgcattttt ctgtacaga agttgttag
5641 ttaatttagg tctacttgc tcaatttgc tttgttgcatttgcatttggaggaggacttaat
5701 cataaaatct ttcccaaggc ccatgtccag aatgggtttt ctgagattttt cttcttagat
5761 tcttttactt caaggcttta tatttaatc ttaatccat ctggagttaa ttttgat
5821 tggcaaaagt taggtgtctt gttttttttt tctgcataatg gctagtcagc tatcccgagg
5881 ccattcattt actaggaggat cctttccca ttgttactt ttggcaactt tgcatttttt
5941 tagatggctg taagtgtgca gatttttttgc tcaagtttttgcatttgcacttgc
6001 gtatctgttt tcgtactagc accatgtgtt tttgggtact gtagtctttagtataatgt
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6181 atgacattttgg tagttggta ataatagcat tgaatctgtt gatagattgc ttggggcagt
6241 atggccattt taatgatattt gattcttcca atccctgagc atggatgtt ttccatttt
6301 ttgtgtctt ctctgatttcc ttttagcaggc gttttatagt tctccttgc gatctttt
6361 acctccttgg ttagctgttt tccttaggtat ttaattttt tgggccttgg taagtgggat
6421 tgcaagctt aattgggtct tagcctgaat gttattgggt tatagaaata ctactaattt
6481 ttgcatttca ttttgtatcc tgaacgtcc ctgagtcattt gtttaattcc cagaggctt
6541 gtggagtcattt tagttttctt attttttagaa tctattctt ccaaagagaa atactttcc

FIGURE 2 (cont.'d)

6601 ctctctttc ctaatcgac cccttattt attccttgc ccaaggctg gaaagccctt
6661 ccatacttt taaaaaaaagaa cgtggaaaaa ggccccttc ttattctcg ttaaaggaac
6721 cttccattt cgctgtcaa tggnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn
6781 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn
6841 nnnttggt ggaatatccg gtgcatttgc ctcttcaggaa gtttatcttcc tccaaaaatg
6901 cagctttca ttccctcctcg ttttcttc tgcattttgc gctccagcc tttccatgtt
6961 ggtgcgttaa gctagacatt ttttagtttgc agtgcattttgc ttgcgttgc tttgtatgtt
7021 ttgtgtcccc tagtcacttc tgtaatgttc gtttctgagt ttcccttggg gggattaaacc
7081 tgccactgaa gtgtcagctt ccctgtcatg ggactgtcct tggaaatgaca ggtttccctt
7141 ccaccatagg atctgccact gtgaaggaga tgatgagagc cccctgtatca cccctgtcca
7201 ctgcacagga agcctccact tcgtgcacca ggcctgcctg cagcagtgg tcaagagctc
7261 cgacacgcgc tgctgcgagc tctgcaagta tgagttcattc atggagacca agtgaagcc
7321 actgagaaaaa gtacgtgggaa ggaagggatg cttcacccctt cctgaaaccca gtgaccccca
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7441 tggggctggt gcttacattt gcattgtaga gattttgtt tctgggtgtt atttcaagt
7501 ccctcttctc aggaagaagc tctttctgac cattcataat cttcttttcc cttccaaagt
7561 aagactgctt gcttgcgtt gtcagtcctc tggccttgc ctacagactg tttgtgacat
7621 atcttagcac ctaattttat acatattaac tggcgttc ctgttctctt gattaggact
7681 gtctgttggaa gattagtatc tccccagcac ccagcacatg gtagcataca gtaaatttat
7741 ttgtatacac ccatgataac tatttgcgtt atgggatgtt gatggatgtt ataggaaaaa
7801 gaaaggaagc acaaacgttg cgtgatgtgc aactgtcttc agaaaggacc cacaggcatt
7861 gcatgacacg cagctgtctg gagggccatg tcactgtctt ctctgagagg agcttgc
7921 gcccacactgg ctctcgtttt aaattttgc tggcctat atctctctat atgcccagca
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8041 ttgcaagata agtcacataa tcaaatacta gccaattttt tgctaaatgg tggcgttgc
8101 gaggcataaca gtcatttcaga aaaggaaatg ctcattatga gctagagtgc tggggaaatg
8161 gaggcgttgtt agcctcatag ggtgtttggg ttttagagca gttcttgc gatcactagg
8221 atttggaggc agagtgcac gatgttgcac gatgttgcac aggtcaggct tgcgttggag taaagcatac
8281 cctagaaagg tgaagggttgc cattgacagg gtgtcaagct acgtgcgtt taggaagtag
8341 cagggagcat ggggactgaa ggcactgact ctgtattata ggttaggaaga ccagggact
8401 tgctagtgtt taaaatccca gcagaaaaaca accagattt gagaaggctt gtgcacttgc
8461 cttaaaaaaaa tggcgttgcctt agtagaaacc ttgtatattt ttgggtgcctt actctatgtt
8521 aatctctcaa catggaaatg ctttcggatc ctatatttcaaa ctaccctgc tagactcatc
8581 tggaaagagg ctgtactgtt ggtggcaaa ggatatgtgc agagtgttta cacattgttgc
8641 tttctctcta cttttatgtt ttttcgttgc attcggaaac cagtaatgtt aaaaagaaatg
8701 ctggctattt ggagtaattt aatgagctcc tagaggat gggacttaga gatgttgc
8761 gtaccaggaa ctcttagcgt cgatttcggatc ctgttgcgtt gaaatgtca aggaccaaaag
8821 agtgagcgtt ttctgcattt cacatttcaca atgtatgttgc acccatctgc tagtgc
8881 tggcatcatc aaccctcttc ttccgcgttgc ccattgcgtt cagcacatca gggagactt
8941 aaacgttaga cctgggtcctt gggccaaatc actgtttca ttggactgtt aatcatagaa
9001 ttctttatca ggcatttca tgcgttgcgtt caagaataag cagacaagg gatgttgc
9061 ggtgttgcgtt catttcattt gatcctggct tcttttgcattt gcatagaaatg ttggctgcac
9121 ctgggtacctt gttgaagccaa agtggtttgc ggagaacaat acttggggaa atgcattctag
9181 ttgggaaagg gagaagtggg gttggaaagcc aatcttaccc acctacaatg ctctcacc
9241 accggagccc ttccccagaa gcctgagcct cacactctgtt gttgttgcgtt tagtgggaga
9301 agttgcagat gacgtccagc gagcgcaggaa agatcatgtt ctcaatgttgc ttcac
9361 ttgcattcac atgtgtggc tggcgttgcattt atgtgttgcattt tgaccgtact gctgaggaga
9421 tcaaggcaggc gcaggcaaca ggtgcatttgc caggctggatc caagctcagc atggggcc
9481 ggatagctca caggatgttgc ggggtcaggatc gatgttgcattt ttagccaaa acgtctgggt
9541 ttccggaggaa gggacatcag ttaggaggca ctgcgttgcattt tttggcatt tcttttgc
9601 tgggtgttagt ttttggaaacc cagtcaggatc agttcatattt ctggagcatg agaatctcc
9661 caaactacat cctataaaag caggaatgttgc ctggacactg tcttcactc ttctttgact
9721 gagcaacatt ggatgagtttgc tgaatccattt ggtcgttgc gtcaggctgtt ggtccccaga
9781 tacttggggc tggggatgg aggattgttgc aggtcaggatc gttcaaggctt gtagtgc
9841 atgatcacac ctgtgaatag ccactgcact ccagcgtggg caacatagca agactccatc

FIGURE 2 (cont.'d)

9901 tcttaaaaaa caacaacaac aacaaaggc ttcaccaggg atctgcctag gtcagcgagg
9961 tggtcatca agannnnnn nnnnnnnnn nnnnnnnnn nnnnnnnnn nnnnnnnnn
10021 nnnnnnnnnn nnnnnnnnn nnnnnnnnn nnnnnnnnn nnnnnnnnn nnngagtgt
10081 acttcacccc gtggtaaga tgcggcacag actggcgtt cctacggcgc cttcaactgga
10141 aagccccct gtggcctgg ggagagggcg gtcacatccg ccacccttcc cgagctgcc
10201 cccgcccatt ctcatggag gaaatgcag ggcgtgtgag ccccccaccc ctcgccccca
10261 cctctgccag gaccggccgc atttctgcac tgccccc cactggaaag gaaactctct
10321 ttctcaattt ccttaatga ggacattgtc ttttagcccc tgccacccccc tgcaatcgtc
10381 ttccaggctg caaacagcga gtggggaggt gaacacatca gctttccctc cttccacacc
10441 accagggaaat ttgccaaacc acttggctct cggccgcctg gcctcgccac acctgtgcc
10501 acagtctctc tccgctgcag ccccccgtgc cattctccag gccccacgta cctctgcctg
10561 ggcgcgataa gacctggta gatggccccc ggctgcaaag cttccctggg ccccatcaga
10621 gaggacgccc aggtgaagcg agggtccct gcccacccctg caagcgcagg ggcgcctcca
10681 agagtgcagc cctaggccgg tgtgtatgg tggagacgcg gtcccgagg gcctgaacca
10741 agaatggaga agacaaaggc tgtctttagg gagaacttc cctgaggggc ttagtgtgtgc
10801 gatcccattt taatctcaca accctgggg ggagctgggg cgggtctca ttgttcattt
10861 gaggacaccg aggctcaggg aacttagacg actttccctag ggtcccccca acccccaccc
10921 gcccaggccc ctctcccaagg caccctcat ccccacacag gctccctctaa gctgttcct
10981 tgtggtccag ccccttggc tcagctcctc aaatacaggg acaccccttc tctcccccgc
11041 agaactcaag ggtctccatc cactgtgcac gcacagaggc ggtgctcaga gtggggctaa
11101 gcttactgtc cagcctgctg ggccaggagg ggcagaaggg cccctctcag gattccttcg
11161 ctctgtctc gccaataggc catcaactcaa gggctaattg acaggacgat gtggagaaac
11221 gtgggctgca gcacttctgg ggccaaggc agggtggcg gcactgggg gtacagggg
11281 gggacctca ctggggccag aggcttctag aagcttctgc aagaaggggc ccctcaccca
11341 tgtcttggcc aagaagtggg gagggtggt gtggcaaagg aaacagctag gtcaagagaca
11401 agagatgctc tgcaaagccc tgctggctcc ccacgggtgaa gcatctatg catgtaggac
11461 ctgagagatg gcagggccgg gtgcgtccct atggatgtat ctccattttt gggcagagac
11521 atctgggctc tcacccgtca ttgagccaaac caagaaatta tatttacttt ttagagcgag
11581 cctccaacaa attatacaag cacttgagaa taagccctcc cactgtctt agagatggag
11641 cccaggaggc cagctggaaa gatgtccctg ccctcaactca ggagagatgg tggagctgg
11701 agaggaggc gcactccctg ggacccagca gatggacttg actcagcaaa tagatgcaac
11761 catatgtggg gggtggggag gcccagaaaag gcattacagg ccagtgttct taatcctggc
11821 tatacactgg aatccaccag tagccctaaa atataactgt gctggacttc ccctgggtcc
11881 acagttgtc cagagtgggc agcatggagt ctgttaacact aaacacacag gattgagaac
11941 catatgtcta ggctgttgtt agccatgtg gggatatacg aaaaggaggt gcacagttac
12001 cttctatacc acaggatagg tgctcattaa accctgttaa aatggactgt gacccagctg
12061 gcactcaggc gcactcaggc gccaggtggg tcacacttcc attttaatag gattaatga
12121 gcacctattc tgtgacagct gctaagatac agaggctcct gagatacaga gatgacaatg
12181 accttcagaa acactgaaca gagataagaa aggacacagtc tggccttcac tccaccatta
12241 attcctccat ccatccatcc atccatctat ccattccatct ctctgtctat acttccatcc
12301 atccaccatc cattcaccat ccacccatca atccatccac ccatttatcc atccatccat
12361 ctcactatct gtcattccatc catccatcca ccattccatga atccatccat ccgtatatca
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12481 cttctatcca tccattccatc atccatccct caacccatcc atctgcctgt ccattcggtt
12541 gattgtccat ctgtccatgtt ccctccattt ccctccaaac tgggtggcag tactctccac
12601 ctcactaccc caccatccctt attattccct cccaaactgtc tctttcacaa gggccctctg
12661 tcctgcctgt cccatccctgg tctggacccct atcccaactaa agctacatgg ctgtatcaa
12721 caatcccaat cccagagtag gggaaaggaa gtgagccct aactgcccgt atgtttcc
12781 ggagatggtg gatactgtc cattactaat ccagatgtt ggttttaatt tttcttcc
12841 gtagacccca attgtggtag gaaaaaatg ccccaactgtt ggacacaaac agacccctgg
12901 tcaaattctg gtttgccaa ttctgccta aatgacttta ggaaactcc ttgaccc
12961 ccccttggag actcagttt ctcacccatca aatggtcaat aatattttt acctcc
13021 atggccatca agctaaaaat agattattgt acccccaaa acaccgacac aatgtttaga
13081 aataaataat attattttaa gctttagt ctggctgggt tctcagccctc gtctaccc
13141 tgggtgtgca gactcaaacc cagggtccca ccctcataga ctgtcatctg tgggtgtggg

FIGURE 2 (cont.'d)

13201 gttggcctgg cactagcagg tgctaattgt cctcagagga ttcttaggtgt aaaaggaaat
13261 gaaaatcttt ggaccaccaat tcactctgcc aaaaggaaaa aattaagctg aaagctgagt
13321 gatgcagaagaa acgaagatag ctacagataa aaggtaaaaa cctccacagg tagctcttgg
13381 tggtcacctt atcaagtgtc gatgtactaa gcgcagaaggg aatacataac tgactattcc
13441 cctacctgtc ccttttttt tgcaacatgt ggatttcgtac acgtgaccat gcctccctt
13501 tcttccttc agcctgttct cctttaaaata ttgatgcct taaagacatc ttccggaaaaa
13561 ggcacagttc accaactgtt cctgtggatt tggatgcctt tttccgtgt atgtctttt
13621 ttttattttt atactttaa ttcttaggata catgtgcaca acgtgcagga ttgttacata
13681 tgatatacatg tgccatgtt gttgtctgca cccattaact cctaatttgg tatatcttct
13741 aatgcatacc ctccccccccc tcccccccccc atgacaggcc ctgggtgtg atgttccct
13801 tcctgtgtcc aagtgttctc attgttcaat tcccacatc gaggatggat atgcgggtt
13861 tgggtttttt tccttgcgtat agtttgcgtga gaataatggt ttccagtttc atccatgtcc
13921 ctgcacaaaggc cattaactca tcccttttta tgggtgcata gtattccata gtgcataatgt
13981 gccacattttt cttaatccag tctatcggtg atggacattt ggggtgggtt caagtcttt
14041 ctattgtgaa tagtgccaca ataaacatac gttgtcatgt gtctttatag cagcatgatt
14101 tataatccctt tgggtatata cccgataatg ggtatggctgg gtcaaattgtt atttctatgtt
14161 cttagatccctt gaggaatcgt cacactgtct tccacaatgg ttgaactatgtt ttacagtccc
14221 accaacatgtg taaaatgtt cctacttctc cacatcctt ccagcacctg ttgttccctg
14281 actttttat gattgccatt ctaactcggtg taagatggta tctcattgtg gttttgattt
14341 gcatttctct gatggccagt gatgtgcgtc atttttcat gtgtctattt gctgcattgaa
14401 tgtcttctt tgagaatgtt ctgtcatat ccttgcctt ctttttgcattt ggggtgtttt
14461 tttcttgtaa gtttgttga gtttgttga gattctggat atcagccctt tgcgtcatgaa
14521 gtagattgca aaattttttt cccattctgt aggttgcctt ttcactctga tggtagttt
14581 ttttgtgtg cagaagctct ttgtttaat tagatcccat ttgtccattt tggctttgt
14641 tggcattgtc tttgggtgtt tagacatgaa gtccttgccc atgcctatgtt cctgaatgg
14701 attgccttagg tttcttcta gggtttttat ggttttaggt ctaacatttta agtatttaat
14761 ccatcttgcattttaattttt tataagggtt aaggaaaggga tccagcttca gctttctaca
14821 tatggcttagc cagtcttcac ccggggctgtc aggtaccgtc tnnnnnnnnnnnnnnnnnn
14881 nnn
14941 nnnnnnnnnnnnnnnnnnnnnnnnnn nacaatgaga acacatggac acgggttggg ggggtatcac
15001 acactggggc ctgttggct atggggggct gggggggat agcatttaggg gaaataccctaa
15061 atgttagatga caggttgcgt ggtgcacaaa accaccatgg cacaatgtata tctatgttaac
15121 aaacctgcac attctgcaca tgcataccca aattttaaatg ataataagaa aaataaaaaat
15181 aaataagttttaa aagagatataa aaaaaataaa agagaacatt tgccacattt agtctttctta
15241 gatggaaaga gttgtgtac atatgtataga attttttttt cacaatctt gtaaattctc
15301 atttgtttaa aaagaaaatca tacaaattttt atgtttttt gggatgtttt ttttttttttt
15361 agtcgttaga tcacctctgt aagggtatgt tctatatctg ttcaatgggt tagggacat
15421 ggatctggaa agcctgagaa gaaaaagaag gttctatacc agacttgta tatttttttttt
15481 ttttcatattt ctatccattt ttttgtgtc attttttttcc tcactattgtt atatatgtt
15541 gacaatgcta aactttttt tgcattttt ctatgtgtt cgaatgccta atatatgtca
15601 aaatttagcgg tagttttttt atttttgtt aatattttttt tgctttttt catatgaaat
15661 gttgtttttt gggggaaatg gccaaactac ctgttggatgta atactcatcg tggttggtc
15721 ctgggttcagg ggaggaggaa ggaggggaaa gtgcagagag ctctatgccc ctgtgtttac
15781 agtggggcaaa gattaaccat tatctttttt gttttttttt tttttttttt ttttttttt
15841 atgttagtgc tataaaggac aaacgagttc taattttttt catctatgtt ttttttttt
15901 taaaggggtt gccagtgtat aacaaaatgtt gggatgtttt actaatatat ttttttttt
15961 ttgtttttttt attccatggaa aagttgtct tcctatctt gggatgtttt ggcactgag
16021 ttgtatggaga tggggggat tctaaatgtt gatgttctt tttttttttt ttttttttt
16081 tataactatg gttacatgtt tgcgtttttt tcggagactgc tttttttttt ttttttttt
16141 taactccat cttggaaacac ctgtttttt tagatgtttt ggggggggggggggggggggg
16201 aatgttagagg taataaaaata ccactttgtt aatattttttt tgctttttttt ttttttttt
16261 actgtctttt agaaatttaa ttgtttaagcc acctttgtt ggggggggggggggggggggg
16321 ctgttcaat gttttttttt ggg
16381 taaggcctaattt gttttttttt ggggggggggggggggggggggggggggggggggggggg
16441 ttaaaatgtttaatattttttt tttttttttt tttttttttt tttttttttt tttttttttt

FIGURE 2 (cont.'d)

16501 tcaatagaaa cttgggttgc ttccatattt tagcttatcat gaatattgct gccatcaaca
 16561 tggtagttc ctgtattcaa ctctttgggt aataccaga agtggaaattg ctgaataagt
 16621 atggtaattc tctgttaaat ttttggggag ctgctgattc atactttac gtataaaata
 16681 ttagacctta aatgtattat gtaaaaacac taagtatttt taacattcta gagtaaagaa
 16741 ggtgttcctt agcaagacag aaaagctgaa accctcaata gaaaaggcctt gttatgtta
 16801 tcacataaaa tattcaaaaat ttctgaacac acagacacac acgcactaac gaaaagctat
 16861 ttacaacttg tggtagatga agaaataatt tcttaacata gcaagaaccc aggcaaatga
 16921 ttaagaaaaaa gaataatcat acaaattta tacatgtgag aagctgtca gccttccc
 16981 ttaattaaag aagtaaaata taaaacaaaa catataattt ttcaacttagc agagatgaaa
 17041 taccaaaaaca gatgggtata ggtgtggAAC atacttcctt ggttagacagt tagccaatat
 17101 ctattaaaat cccttgccac agtaattca gttctagaca ttgtcttat attactgtat
 17161 ttattctgtc ctgttaaccat aaattccaca gctgcctagt gatggttcta tatttaatg
 17221 gaatgcttac tctcaagtattt gttttttctt ttgagatgga gtttgtctt gttgccaggc
 17281 tggagtgcag tgccatgatc tcagctcaact gcaaccccca cctcccaagg tcaagtgatt
 17341 ctccctgcctc agcctcccgaa gtagcttaga ctacagggtgt gcaccaccac gcccagctaa
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 17461 tgacccatcg atctgccccac ctggccctt caaagtgcgtg tgattacagg tggagccac
 17521 gacaccacgc cagtattttt ttttttaaac cacagcttct tcattttgag tcatctctaa
 17581 atagctgcaa tttaactaa ctttagggttt acaattttta aattgtgtt tggtaaggta
 17641 tccacatgt gtttgatata cttcttttga cataatata cacaatgaag tgattactac
 17701 agccaaataa tgattaccat acccatcatt gctacgtttt agaaagacaa ctgattttta
 17761 tgtgctgata ttgttaccctg caaccttact gaatttacta aatcttagat tttttgggtg
 17821 catcctttgg gattttctat taacagaatc atgccttctg caaatgtaa tagtttagct
 17881 gtttctttt aaatatgtat gccttcttgc ttttttttt ggctatgtt tttctctgg
 17941 cttagaacttc tagtacaatg tccagtgtaa gtgtgaaaaa tggcatacct tgggttgg
 18001 ctgatttttag gagtaaaagct tacagttttt ctacccttga gtatgatttt agttgtgaga
 18061 ttttcctata tgccctttat catgctaaga aagttccctt ttattttagt ttgtgattt
 18121 tttaaaatttta tgaaagggca ttttttttta tcaaataactt ttttctgtt ctgttgagag
 18181 ttggccatt tttttctat tgaaatgggtt tattatggta gctgatTTT ggatgtgaaa
 18241 ccaaccttgcgtt gtccttggga taaatcccat gtaatcatgg tttctatgtat
 18301 ttgctggatt tggtttgcgtt gtattttgtt gggaaactttt gtgccttataa gataagaggt
 18361 attgatctat gttttctttt tcctgtgtat tcttttattt gtttttgg caggaaata
 18421 gtggcttcataaaatgttca agaagtgtac cctccatcatc tttttgtgg aagagtgtga
 18481 aaaattggta ttatcaaatttgcgtt ttttttttttgcgtt aagccatTTT cttttctttt
 18541 tgggtagttt ttgattactg attcattctc ttaatttttttgcgtt ttaggtctat tcagattgtc
 18601 tttttcttcgttca tgatgttgcgtt ttttttttttgcgtt gaaattttt catttcaattt
 18661 aaattatctt atttgcgttca tgatgttgcgtt ttttttttttgcgtt ctttataat ctttttattt
 18721 tcttaatgt cagtagtaat gtttttttttgcgtt ttatttctgttgcgtt ttttttttttgcgtt
 18781 ctcccttttgcgtt ctttgcgttca tgatgttgcgtt ttttttttttgcgtt ttgattttt tcaaacgcgtc
 18841 aaattatctt atttgcgttca tgatgttgcgtt ttttttttttgcgtt ctttgcgtt actaaattt
 18901 agtttcatat ttttttttttgcgtt ttttttttttgcgtt ttttttttttgcgtt agttatttttgcgtt
 18961 tcttaataca agtggtttaca gtttttttttgcgtt ttttttttttgcgtt tacttcttgcgtt
 19021 aatttttttgcgtt ttttttttttgcgtt ttttttttttgcgtt aatttttttgcgtt aatttctgtc
 19081 ttgatttttttgcgtt ctttgcgttca tgatgttgcgtt ttttttttttgcgtt atttcattttt aattttccaa
 19141 atatttgcgttca tgatgttgcgtt ttttttttttgcgtt ttttttttttgcgtt taatttttttgcgtt
 19201 taataacata ctttgcgttca tgatgttgcgtt ttttttttttgcgtt tgaggtgtgt tttatggcct
 19261 aatattgtgttca tgatgttgcgtt ttttttttttgcgtt aatatttttgcgtt aatttctgtc
 19321 gtttttttttgcgtt agtggaaatgt ttttttttttgcgtt ttttttttttgcgtt ttttttttttgcgtt
 19381 aagtttgcgttca tgatgttgcgtt ttttttttttgcgtt ttttttttttgcgtt ccatttttgcgtt
 19441 ttggaaatgttca tgatgttgcgtt ttttttttttgcgtt ttttttttttgcgtt acgtgttagt
 19501 gtttttttttgcgtt ttttttttttgcgtt ttttttttttgcgtt ttttttttttgcgtt
 19561 ctttttttttgcgtt ttttttttttgcgtt ttttttttttgcgtt ttttttttttgcgtt
 19621 gtttttttttgcgtt ttttttttttgcgtt ttttttttttgcgtt ttttttttttgcgtt
 19681 ttttttttttgcgtt ttttttttttgcgtt ttttttttttgcgtt ttttttttttgcgtt
 19741 aatcaaaatttgcgtt ttttttttttgcgtt ttttttttttgcgtt ttttttttttgcgtt

BIOINFORMATICS

FIGURE 2 (cont.'d)

19801 cctttgcctt ttgattgcat tggtaatcc attcacactg catattatta tttagtgaaa
19861 ttatgtctg tcattttagt cttttttgtt tttgttttgc agacagaatc ttgtctgtc
19921 acccaggccc gagtcagtg gcgtgatctc ggctcaactgc aagctccaa cccgggttc
19981 aggccattct cttgcctcag cctcccaagt agctggact acaggtcccc accaccactc
20041 gttgctaatt tttgttattt ttagtgagaa ctgggttca ccgtgttagc caagatggtc
20101 tcgatctctt gacccgtgaa tctgcccacc tcggcctccc aaagtgtgg gattacaggc
20161 atgagccacc gcacgccccg atttttgtt ttttatatgt atcatgtctt tggtgttcc
20221 gtttgcctt tacttcttc tatttcattt aattaatatt ttctaatata gtatthaagt
20281 ttatataata attttatcac tgtatttta ttttagtgg ttctcttagg atttctgtat
20341 tatactttat cagtagtgat ttcagattca cactagctt attccagtaa tatgtagaaa
20401 tgtaactcat gtagaactta attctctgc tctttgtgg ttatattat tatattatat
20461 caattaatgt tacaaagata tacattgtt aaattattat tggtgctatt attagcatac
20521 ataacaccca catattaaaa ttgtatatat tgcataatgt tattatata tattatagaa
20581 tatagggcca atagtatatt gtatacatgt tattatata aattgtttt aaaatgagtt
20641 aaaaaaaag aaaaatgcat ttctactgtc tattatagaa aaataattac atcatactga
20701 acgtcttcac cnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn
20761 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn
20821 aatttgcggc cgctaatacg actcaactata gggagaggat ngctctaata
20881 ttgctgagac aaagtatatg tgcctttgtc atcctgaggg cccgggttc
20941 ttaccattt gctctccac cagcaatgtt taagcatacc cgttcccaa cacttccgc
21001 aacacatatt atttgattaa ttttcttgc tgataatgtt atctcattgt agtttaatt
21061 ttttgcctt attgtgagag aaatgaagca tctttcatgt ttttagagac catctgtca
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21181 taaacatgag ctcttcgtgc ctcttaacca tccttatcca gcctgttcc acgttcc
21241 ttgcctaaaa acaagctcac tcaaacaatg catttcgtt gcccctccccc ttttgaata
21301 aatcagatgg gcaaaatttc ttttgcattt ggcctgagac ccaaattgtt aaaagtagct
21361 tagctgatga gtgaaaagga gcccgcattt ggggttgcac agaaaatgag gggcgtgggt
21421 aatagaggg gctgggcagt aacctggcag aaggcgcac aggcaagga aggtgcgt
21481 gtgtcctgca gtgagaagga ttttgcactt atcaactggg taaacacact gctatagct
21541 ctccagcgac agcaggcact ctcagaaggg aactgagaaa agggaaatgc cagttctgc
21601 caaggatata tggaaaagtt ttttttcccc gtatgttctt tggcaaccc ttgtttatca
21661 tttaaaatgg tgaatttgat aacaaagcca gccactaaaa gacttggatg tagaaaaca
21721 aattgtcaaa aagtatttat catttcataa aaataaaaata aactgggatt taggcttgg
21781 tagaaatcca gaggttgc tttttttttt tggcataat taattacaac atctgaagaa
21841 ttacaagaat tttttttttt gtatgtat tgcattat tcttttcat gactggagag
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22021 gtctgatctt atggagagga gagtgatgtt gtnntctctg gagctgtac ntggccccgn
22081 gtcacacgt gccacactgc ctgctgttt cangaaagag caggacggct ggttccgt
22141 catctagtgaa ggtcctgtcc catctagtaa ggttctgtcc tcagagctcc taagaggg
22201 ttgctggct ttgattacac tggcttcag aatctgacca tggaccattt atttgaagct
22261 gtcagcttca ttttgcattt gatcaggcca gtctttagg tctttgttgg ttgatagatt
22321 tctctcaggat ctatagcage aacaaataaa gcttttaaa attattttct tgaccattct
22381 gcttatggat tggctgtac ctttgcattt ttttgcattt tttagatcgat gacagaagga
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22501 agagttgca ttttgcattt ttttgcattt ttttgcattt gatctcaactg
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22621 tgatgaggat cggacatacc tgatgtat ttttgcattt gttttcataa gattggaaat
22681 ggtgaaatga gagcagaaat gtggcagag gatccaaacg ctgtttccta ttttgcattt
22741 aaaactgagc agggcagaat cttcccgatcc ctggcagaac tcccttcctc cttgggtcc
22801 ctgtcactgt catgtggcc ttgacatctg ctacaatgtc acacacatgg ggaaccacac
22861 agggaaatgtaa acacatgtcc tgacgtgtt gtttgcattt gtttgcattt
22921 aggctttgtt ttgttacgag gctctgcctt cctacccatca ggttgcattt
22981 gcatgtcaagg atgaaatgtt ttttgcattt ttttgcattt
23041 tagtactgga gttcagaact ttttgcattt atcagaaacc tggccctccgg accaggaca

FIGURE 2 (cont.'d)

23101 ctgaccttga ttggcacga tttccagat aagacattac ctcccccac cagggtttgc
 23161 cttcccttca gaatacagga aagtacacgt ggttccaaga ggaccatgtc ttactaaga
 23221 taaaaggtag gagggtgact agtgtacttc ctctgtgc atcccttgc ggaagggggc
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 23521 gaaataaaag aagagagcaa taagtacagg aaggcttca gtcccagaat agtgttagga
 23581 ctaaatgtca gagaacaggg ggactgttagg agtttggga ctttagcatg gataccctct
 23641 caatctgctc ccctgtgtt taaacagtagt agccattgtt actaaaaggc cttgagtgct
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 23821 gcaaggatg tcacacgata gtgtccacag gcatccctag atgttttca tttgtttca
 23881 ggaagaatat tgacaaaagg agtgtatggg ggttatttc aaggatgtt ttttcatgtt
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 24301 tggcttgcgtt gttgaccaag ggtcggtttt cccaaaggatg gagttccagg atgagatgc
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 24481 gaagggtggg ggtgatatgg ctttctgtt gataacacac tctggact gtttcttgc
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 25141 ccagtcccg caggcttgc gcctcatatt tctttggcat tgcttagaaa ataaacggcc
 25201 cttcggtttt tgacttataat atgaactaac tcaatttttttgc tgcatttttgc
 25261 actggacctt caagagatta gtgtgggtt tccatagcct tagacatttc ttacactttt
 25321 atccacatg aaaaaaaaaa tagtgtatatt tgattttttt tgccaaaggct tagaaggatc
 25381 taatatgtt tactcggttgc gcaaggggaa gcaagcagaca tttcttaggtt ttctccctgt
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 25741 ctcaccaagt taccatgtt agtctcattt ctttactatgtt atgtcttattc tcttttaaaa
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 26041 aaagccagaa gaacactaaa gttctcaagg tccctcaatg atgtgggttca gaaaggcgac
 26101 gataacttcag aaagtttgc ctatgtggaa agaacttgc tgcatttttgc ttcactgc
 26161 cctcaagata cgtgttcatc aactaacagg ttttcatcata aagaaaaaaag aaccctgaac
 26221 cacaaacccctc ttggcaatttcaaaatct tgcatttttgc ttcactgc
 26281 actgcctcag aggtggaaatc tggcaagggg ggcaggcccg gctgttgc gcaagagaaag
 26341 gcggatgggtt gggccacatgc ccgaaggcccg caactgc ttcacttcg

FIGURE 2 (cont.'d)

ପ୍ରକାଶକ ମେଳିକା

FIGURE 2 (cont.'d)

29701 tagggtggtt tccccatctaa aaatcagacg aggctagaaa atttcaattt tatttgctaa
 29761 ggttagcatca tggttttaaa aatgcatcat aaaataagac caagagttaa tacaaagcat
 29821 gaagtcatgt ttccctcaaa aaaatgattt gttctgttgtt ccaaattaatt tggaaaacat
 29881 tgcaaactct tcagcagtgg ttctcaaatg atagcttgcg tcagaatccc ctggggccct
 29941 tgctaaaatc tggatggcta cactccccgc ctagagtggg tttaaactcag tgcccactgg
 30001 caggaaaactg aaacctggct gaagtacccg aggaggcctt ccccgtaaaa cctctggctg
 30061 gcgacagctt ggtttcctcg ccgctgcttc tgagtaattc tggcacgcag ttccctcttag
 30121 ccacctgctg tacctggaa ggggccagcc ctccctcagca ggcttgcgc ctggccctgca
 30181 cagcacaact gtggcgtaaa aaatggaaaa gctggtagca gaagggaaaga gcagggagac
 30241 agaggttagg tgaacctcaa tggcctcatt aaagcaaatt gagaagaga gtttccttcc
 30301 cagtgaggcg ggacagtgcg gaaatgcggc ccgttctggg agaagtaggg gcgaggggtg
 30361 gggggctcac cgggcacatg gccaacagct ggtgcccgac ctggggccaca gtttggcaca
 30421 ggagaaaactg gaagatgcag gagaaagcta ggtcaactgccc cctaggccag gtgatcaagg
 30481 tggctgttac ctgcctgtgt ggccttggaa aagcctgggtt ccctctctgg cttgcagggt
 30541 ccttcctttt acaaaggcgg gtcttcgaag ccctgaatat tccagttatc tgtaaggata
 30601 tagaaatatt ttgcctcttag atgacatgtt aatatgttcc tcctaactcc acttcttct
 30661 acatctgtgg cttcttctga gaactaccag acccaccctg ttttcaggt aaacctctcg
 30721 ttttgaggtc aaacagaccc agctgggtaa ttggtgactc actcctgtt cctccaaaga
 30781 acaggggcaa gggaccaccc gggacctcag gtgc(ccc)cagc acaggaccc tttctggggc
 30841 accctctgc actggccat cttcaggccc tacaggcgc tcggggcctg cgtaggccctc
 30901 tcatctccca gaaataagtt cttttccca cccagactga caccatgtc tacagtggg
 30961 ttttacccctc cagcttgaca agcattctt gcccagaaca ctcagctgac gagggggtgt
 31021 gggggaggaa ggaggcagca aggctgaaag aagcttctct ggtattcca gtgcctggct
 31081 gctggtcgtt gccatggtga gaccacagca gcctccctgg aagcaagcac ctgtgtaaaa
 31141 gccccctccctt ccccaacaagg ggctggatcc aagtgaagaa ggtaccagaa ggactggaaag
 31201 atgatgtgg tattattcga cagctccagg gtgtctgtgc actgagcacc tactgtatgc
 31261 agcccatcac aaaggccagcc acactgccc ggctgtgc tggcaacttc cagcagtaca
 31321 ccctctcggt cacctgcagg ctccttggttc atcctgacac atgaggagaa aaagacagta
 31381 ctcacaaaagg cctcttagcct tggggccca ggaccctctc ctgagcatca tggcctccta
 31441 ggagacccag ggtagccagg acaaaggaga gaagcattt ctaagctaag aaaggatgg
 31501 aggggatttc tggctctgcct ggatgcaccc ctagacctgg cagggcaggc aggagagacc
 31561 cccagtgtct ctgttttac cttaggatcc cccctctgtgg ttgctccagt ttgctgcctt
 31621 catgcatttt cacagggtga tttccctgtttt acaacagacg tggatgtca ccaagccctg
 31681 tggccatca gccaggctct ccccaagccctc catccctctca ttctgcttga tcaggaggat
 31741 gtggggaggt ccctgactcc ccagctttcc ccatgacaag gtgtgtgtct acagctcaga
 31801 cccagccatg ctccacctga gaagtgggtc caggcagacg actgggtctt ggcacccatg
 31861 ggctgccttc tcagggggtgg gcaggaagggg gagccactgg aggagtgc cgggcacagt
 31921 cccctgcacc aggtgaggtc acctttagt ccatgaggcg atgctgcattg agcccctctg
 31981 gacactagaa ggctgggtcaatgtttttt taaagtgcag gcatgactgt gcccctcagca
 32041 tgcatagggc agcaggcata gattcataca cgttagttt cacttaagct gcagtaagag
 32101 ctacagagga aatgaacaga gacagcatca ctccctgtttt ccctccagat acaccccatg
 32161 tgcgcagtaa gagaatggca tagtctattt ggacagccac atcaaaatac cacagaccag
 32221 atggcttaaa cggcagatattt ttgtctctca caggtccggaa ggcttagaaatg ccaagattag
 32281 ggtgccagcc aatccacttg ctggtgagggg ccctcttccc agcttgcaga tgcctctgtg
 32341 ttccccacacg atggtcacgt ggcagagaga qggggacagg gcatgaataa gcccctgg
 32401 cttccctt cttacgagga tgctaatccc atcacgggtt ccccccctc gtgacccctgt
 32461 ctaaccctaa tcacccctca aaggcccat ctccctatgc catcacactg ggggtcagg
 32521 cttcaacaca tgaattttttt gggcacaatt tagtccacag cagaaaagaa aggggcacag
 32581 agcattccag cctgaaggaa acagatgtgc aaaggccca ggcaaaggcc tgagctctga
 32641 gggcaacca gactcaaggc tgaagagttt gcaactgtt gcaactgtc gttggagagac
 32701 aacaggctat cttgttaatc tcaatgtttt gtgtccaga gagagaaact gaggcacagt
 32761 gtgtcatgtt gaacactggg cagcactccc acgctccgtt cctgcactct gcagggttat
 32821 ggaggaagcc tggaaagtctt cttccctt ttccacccctt cttggaccca tcccacaccc
 32881 tgcctctcc aggaaggccct gggatttgc catacactca catctcactc cttatgttcc
 32941 gcagcctgca ttctgaattt agcaagctt ggccttgggt ttcttattttc ttgctctgtt

FIGURE 2 (cont.'d)

FIGURE 2 (cont. 'd)

FIGURE 2 (cont.'d)

39601 gagatattac attgtggttt tgatttacat ttctctaatg atttccttc cagtttgat
39661 gctgacattt ttttcttatg tttttgcctt attcatatat aattttaaa gaaatgtcta
39721 ttcaaatcct tttgccattt taaaatcata ttattttaa atattgtttt gtagaaattha
39781 ttatataattt ctggatatta actctttatc agatataaa ttactaata tttcttcca
39841 tccacaagg tttttaaca ttgttatgtc cttaatgc aaaaagttt aaaaagttt
39901 atgttagtccc aattgtctat ttttctttt gttgtctgtc cttttgggtt catattaaaa
39961 aataattgcc atatccccctt attctaagag ttttatagtt ttagatctt catttaagtt
40021 ttaaatccat tttgagttaa ttcttgtata tggcataaga caaagttca acttcactct
40081 ttcatgtgtg gatatccaaag tttccaaaca ctgtttgtt aagagaatgt tctccctca
40141 ttgagcgat ctggaatgct gtaaatatta tttgaccata tatgtggagt ttcttttaa
40201 tgggttctt attctattcc attggtctat atgtctctt ttaagccagt gtcgtctgt
40261 ttaattact gtagtctgt aacatgtttt gagatcacgg agcacgac ctcaactca
40321 tttagtttc aagattgtct agtcagagta tataatgata tttagataaa ttttcttctt
40381 ttttcaaaaaa atgcagctt gatttgata gggattacat ataatttga gactgcttgg
40441 gttctattt actttcaaa ttaatacata atgtgtaca gatttggga atacatctga
40501 tattttggag atcttaacat taaatcttcc aatccatgaa taccaatgtc ttacatattt
40561 tttgtgactt cttagtac tttttgttag tttttagt acaagccctt tattccctg
40621 gctaagttt ttccctaagta ttttactatt tttgatggta ttgtatattaa attattttct
40681 taattacattt tggattgtt atagttattt tataaaaaagg caactgattt ttgtgtgtcg
40741 attttggatc ctgcaacttt ccagaattttt ttaataatgtt ccaacagttt tctggatttt
40801 atgcataatgcatctt aacatcttcaaa gttttctaga ttttatgtc gagtcttagga ttttatgtc
40861 ataggatcaa gtcatctgtg agcagagata atttactttt tttttttt tctttggatg
40921 tcttttctt cttaattttt tttccctaattt tggctctgtt gaaattccaa atactatatt
40981 gaatagaagc gaagagacag agtataactt tcttgcctt aatccagaag aaaagtttga
41041 atcttttacc attgagtttgc agtttaccc tggatttttt atatatggcc tttattatgt
41101 tattttccctt ctatccctt ttttgcgtt gttttcgttga taaaagggtt taaattttgt
41161 taaacattt ttctacatca atataatgtt tcatgtttt tttgccttta ttcttattact
41221 atagtgtattt acatttttttgc ttttttttgc ttttttttgc ttttttttgc ataaaaatctc
41281 attctgtcat tctggcttggaa gtgcgttgc atgcacccatc ctcaactgca catttgcctc
41341 ctgggttccaa gggattctcc ttttgcgttgc ttttttttgc ttttttttgc ttttttttgc
41401 cagcacaccc tggccacatgt ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc
41461 atcacaaata ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc
41521 agggttaatac ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc
41581 tgacttttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc
41641 ggctgttttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc
41701 ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc
41761 ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc
41821 atcccttttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc
41881 gttgaatctt ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc
41941 aaaaaccacc ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc
42001 tatctctgtat ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc
42061 ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc
42121 tacttctttt ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc
42181 ggtctcaat ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc
42241 gcaggcatga ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc
42301 tataaaatcc ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc
42361 ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc
42421 ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc
42481 ctgtactgtat ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc
42541 atctttttaaa ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc
42601 attccatgtat ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc
42661 ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc
42721 ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc
42781 ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc
42841 gaggtatata ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc

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FIGURE 2 (cont.'d)

42901 atccattttt ttgtcttgta actatTTTG actTTAAGTC TATTTGGTG GATAGTAGTA
42961 tagtcacttc tgcttgctt tatttaccat ttgcattggca ttacttttc cttttttca
43021 ttttaagcat attttttct tagacctaAA TGACAGGATA aagtggatc ctttttacaa
43081 atccattttc cagtttatAT CTTTGTATT AGGAGTTAA TCCATTACA TTAAAGTAA
43141 ttactgatag ggaaggacct acacttgcca tttttgttt tcctgtatgt ttgttaaatt
43201 ttgttttttA ttccttctct tactgacctc tttttggTT tgcattttttttgtgt
43261 gacattttGA ttccccttcct gtttccTTT GTGTGATTc tatagatttt ttatggta
43321 ccataagaat tataaaaaac atcttaaagt gttacaacAGC tattttaaAC tggtaagaga
43381 ataacttcga ctgtgtacAA aaactattc ttcaaagtc ctaccctcac ctttaggtac
43441 ttatgtcaca agttacatCT tcataatgtAA tggattcatt aacacagtt tatagttatt
43501 ttaagctt tgtcttgta attctatACA agaattaaaaa gtgcatttt gtacccaaac
43561 tgcatagtac agtctctata tatgtccata tatttatctt tactggagag ctttatattt
43621 tcataagact tcatgttact atttagcatc cttttgtttc aacttgcAGG atactacAGC
43681 aggtccagtG gtaatgaact ccccagTTT tgttcatctt ggaaaggctg attttcctt
43741 tatgtttgaa ggatggTTT gctggatata atattttgg ttgaaatttt ctttcttcc
43801 agcttttGA atatattatC cccctgcCTT ctggcctgca aggttctgt tgataaatcc
43861 actgataatt ttataaaggc ttccTTTAC atgacaagtt actttcttt gctgcttca
43921 agattgtcC tttgtcttTG acttttgaga gtttgattat agtgtgtcC actgtgagtc
43981 tctgggTTT cttaacatt tttttttgt tcataatctc tgatgatgaa ttccTTAAC
44041 ttttatattt gtgaaatgtt ttttcttcat tttcagaagg tatttttagt gagtgaaaaa
44101 ttctacattG acagTTTTT tctttcagta ctgtttagtg ttctctact gtcttcttgc
44161 ttgtactgat tgtatagaaa ctctgtgtA attcttatct ttgtgtctttt gacttaatg
44221 tgccttttA ctctgcctgt ttttaagatt ttatTTTAT tattgattttt gatcatgtgg
44281 ctgggtgtGA gtttcttcat atttattgtg cttggggTTT attgagctt ttaagtctgt
44341 aggTTTATAT ttttcattac atttagaaaaa atttagccA ttattcatttca aattttttt
44401 ctgttcttct cccatttctc atgccttat ggggtctaat tattccactt ctatttattt
44461 tgagggtgtC ttacagctca cttacagttc ttatgtttat tttccactt ctatttattt
44521 tgggcaggTT tattatactt ttccctaatt tgctaatttt ttatgttactt ctaatccact
44581 gtaatctcA tccaaatgtat tattaaattc agacattgtA gtttcatctt cttagaaattt
44641 ttcatcttt tatacttctt ttgtctctat ttgatatgtc tttccactt ctatttattt
44701 tgagcatatG aaatatAGTT atgacaacta ttttattttt tttccactt taccttagt
44761 tcagaggtaC atgtgcaggT ttgttatgtA ggttaaactcg ttatgttactt ctaatccact
44821 tatttcatcA ctcaggtaC aaggcttagtA cccaaatagtT gtttcatctt cttagaaattt
44881 ttccttacCC tccaaacttCA agtaggcccc agtgtttatt ttctgagttt attttatttt
44941 actatTTAA tgccttactC agttcttta ttttgtcat ttatgttactt ctaatccact
45001 tctcaCTATG gccatatttC cctacttctt tgaatatctG gtttcatctt cttagaaattt
45061 atggatattA tatcaagacc ctgtcgcaat atggataccT aaaaagaaaa aacaatgtt
45121 accagTTGC tctaaggcTT tcttagctc tttgtttgtT tctcaagaac aagcacagag
45181 ggtggagcTC aaccaagact gaagttaaAG atgtagaaAG attgagatgg gaagtaatta
45241 agttgaggAG ctctgatACA atggattttC tcttttaat catgtaaAG gcaagccaa
45301 gataatatGT tggggaaAGTT gaaggcgaat gtcttgagaa atatgaaatG caccaaggc
45361 tatggctggG tgatagaaaAT aactaaaaAG tttttaaaggT tctcaagaac aagcacagag
45421 tgctgaggTT agggatagg CCTGGAAAAA ttgagcagtg attgatTTTAC tttttttat
45481 ctcatgacAT tctccagatC cctaagTTT tccaaagtTC ttatgttactt cttttttat
45541 aagtcatTCG gcagcacAGA tcctactTC tttcagTCAG tcattccaca actctacaaa
45601 gcatttttCT ccatcaaaAT ggaactTTT ggggtctgca taattttCA ggggtccacc
45661 acttttgactC ttttctggat accttgcTAAG gatattataA ctctttaatt catgtccttG
45721 attttctttA ttaacttttA atactgttCA ttgcctgttt acctcttCA cccttttctt
45781 ttcacttCG cccttttCT tggtaAGTA tataatcatC ctttttttCT tcctcgaatC
45841 tcagttctCG ggagtaacAT atacaattCA ttcttactTC cagtcTTTA ttccTaaAGTT
45901 ctttatctCT agttcttCTG catatttGTG gcaatttATA gttttttCC AAAAATCCAT
45961 tctccctttT tectgtacAT gtatTTTCC agcttgacca catttcccaG ctcccctggc
46021 agctaggTGA agcaatgtAA ctaaaACTTT gcctgtaaaaA tatgagcaga agttatgtgc
46081 acaatatCTG cctcaCTTGc taaaataAA ttgttatttt tgagcttCT atattgtccc
46141 tttttacaAC taaaatgtAG aggttatggC aacttttATG gtaaagagaa tcatcacgtA

FIGURE 2 (cont.'d)

46201 ggagatcaag aatcatttgat ttgagaggaa cctaaatcc ttaatgactt agttggagca
46261 gactgccccca tcagtctgga agtacccca caacttatgt atatcttcag atttgtgagc
46321 aaaagagaaaa aaatgaaagcc actataatatt taggtctt catgttaaca gtttagctt
46381 taacctaaca cacatttt cctgaatggc agcatattat taacatcaca ggaagggaaat
46441 tcctgttca tggatctttt atttgttgc aataaaggta atctgcttgg gcttaataact
46501 gccaaggcag aatttttgg aataattatt tctatagatg acccattcat aatgacaact
46561 aacatggtt ctaaaatggc ttcatgtacg tcatcttatt tagtccccgc aaaaattctg
46621 aaggtaggtt taatttattcc cattctatatt attgaaaaat tgggattcag agagactacg
46681 gacttataca agtttctgca gctatttaag aaacagagta aagtctcaa gccattaatg
46741 aactgtttag ttttagtgcg cttagtaaaa ttagaactgt ttgaagtgcg tttaatagt
46801 aaaccatcg atatttagtc agctctctgc ttgctaacta atatgaaaga aaaaacatac
46861 atctacgtac atcctgaatt gggagaaggg aaataaaata ttgcaatcc ctttcctgt
46921 attaggtact gtgataaggc gataaggctt ttcatttata taaatgagtc ctggagaggt
46981 taagcgcagt cacccaaagt cacatgacca gtaacttca gagattttac cccaggtctg
47041 gaaagactct gaagcccatg ttattgcctc cagagcctgg tggagaaacc ctgaatgggaa
47101 cagagactca gcagacagag tggctcttc cttccaggga gtcagggaaag gtttggtagg
47161 ggagatagag ttagatctgg gttggattt gatgaaatga gatcaagcag ggataaataa
47221 gatccaagct gtttatgagg gacagggaga ggcagctct ttagaaaga gttgttata
47281 cagagaagca tggaaacatt tgctccatgc ctgccttcc atggatagca gtcagaaat
47341 gctacttgcc tgcctgacag tcttcttca gtcggcaggt gtggacacgt tctgagcacc
47401 tgagcctggg tctgcccgtga cccagattt gtagactggg acagagaatg tgcctctgctg
47461 tccctccctcc cccacttggg cccacaccc tttctacaca ttggatttag aaatctgaat
47521 tggccttttct gtgaacccca atgacagcga agtccccagt aaagaagcac ttaatttaat
47581 tgctccctca gggtccactt agagtaatag ttgtgaacag ctctccctag tgcctccac
47641 aggcaagtgc aatgtttgc aaagataagt cacaatttct tggcaaggcc atcttaata
47701 tgggaaggaa accttgcgtca gtcctgaaca gtcctgttca gactgatctt atcacagggt
47761 gcacactgcc tcaatgtcac catgtttctc ccctcagtt tgcttggcag agagaggaca
47821 gctatacata aagtctgttc actctacaaa ggtaaatca ttttttttaa ggtaattatg
47881 attgttctga ggatgggtat tgagtgcacat taaaaatg gaaaaaggcc tactcataac
47941 tctgtctgtc taatttgcctt atataaaaga cttaatgggtt ttgttgcgt tgatccagag
48001 tcagtaacat ttgaatatgt gttattacca tttgtacgt aaaaaacaa caggtaagt
48061 gggatgccaa atgtggctga gagtttagg tttacattcc acacccacg cttaaatacg
48121 ttgttataaa ttatgggtt attttctt ttcattggcc ttctttgaca ttgtatgggg
48181 ctggattttat ggaggcaacc aacaaattac acagcaatga attctggact gtagtcccac
48241 agccttgacg ctagatacta gctgtgtcac taatactctg tggaccagg gtaagtatt
48301 tagatacatt tatgactttc caaatcaata ggttggacaa agttatcttca aatgtttagt
48361 tcagatttga cccttgcacat aatgccttacc ttcatataca ttgttgcgtt atttttagt
48421 tgaagcatgt ctacaataga aatgccttacc ttcatataca atttttagt tttctgttct
48481 tatgggtgtc gtgaaaatca ttgaacagct ttagagataa ataaaaggac attagattaa
48541 ttctccattn ttaattaaat cttttaaatt ttctgtttt ataaatgttca aaaaatgttct
48601 ggaacaaaaga tataatctca ctacaagttt atttttagt gaaactatga acaataaatt
48661 ttagaaaata ctcaatggaa ttacctttt aatttcagag atgtaaaata taatttgc
48721 tatttctta aagtgataaa tgaatccaa gatgcctttt ttgttgcgtt gtagtgc
48781 gtgccccaaagg gtttgataaa tggaaaat aaccgcttgc ttttttttca gtttgcgtt
48841 tggtgagatg tcatctgtt gtttttttgc agtatgtttt gtttgcgtt gtttgcgtt
48901 tgaatttgc ttatggcc tcataccctt agtaataactc ttttttttgc gtttgcgtt
48961 tgaagcaat gccctatgaa actcaaggaa gcaaggctt gtttgcgtt gtttgcgtt
49021 gactggctga ggctgtaaag aaatctgtt gtcattctca ttttttttgc gtttgcgtt
49081 cgattcttg atctcattat tgaccagg attgagaaga ttttttttgc gtttgcgtt
49141 aatcacaata agtgggtat tacctgaggg ctttttttgc gtttgcgtt gtttgcgtt
49201 gtggaaattt ctttgctc agcacctgtt ctttttttgc gtttgcgtt gtttgcgtt
49261 gttttctaa tctcattgtt gagctaagag agagattgtt ttttttttgc gtttgcgtt
49321 aggtttctt gctccaggaa ggatgcgtga cagactctgc ttttttttgc gtttgcgtt
49381 ttcatgtat gatgcgtttt ccattctcca ggtacagctg ttttttttgc gtttgcgtt
49441 cgtttgcata atgcactgtt gagtgcacca tgatttcatg ttttttttgc gtttgcgtt

FIGURE 2 (cont.'d)

FIGURE 2 (cont.'d)

52801 caggaccaac cagagctgcc ccccagcaact ttctgttag atgcggctgg gagataatgg
52861 ccacatgaga acctgaggtg gagctactat gatgagctcc ttgtccctct cccatgggg
52921 cctgtctgca gcaggagagt gtatgtccaa cacaggtgaa agagacagaa agagggagcc
52981 agtgtgcattt caccctgggg cattgcttga gtccctggat ccatttcgtt ctgaggcccc
53041 cgaccctcta ttgtgtccag gtatttgaga taaggcatgt cttgtccagc tgcatgtgg
53101 ttgagttggg ttttgcatt tgcagccaa acagtgtctc aacttcagtg gtcatctggc
53161 ctggctacta atggctggg gaaaggagga aggttgggc aaggggccat gtgagagtcc
53221 aagttggta aggctacaga gggctcaaaa cgaggtgggg tgctacctga gggatgcgag
53281 ggctggcgag ggcctggagt ccccgtatgca ggagacagtg ggttgggagg gttgggaccc
53341 gggaaagcaga gtgctgggg ggtccaggc aggggtggcag ggttgtggca gattaagagg
53401 cagacacagg ttccctggtc gttaggaggc agggggccat aaggagtgtg ttccagaggg
53461 gggctcacac ccaggctcca gaggctggg gaggggaggg gtgggaggg gggaccagga
53521 gccatcagtg agaaggaaga cctgggtgtg cgcctggagg agtgcctctg gctgaatggc
53581 acgggctgaa gacatcagga ggtatgttgc gccaatgtctc tgacgcact ccagccttca
53641 cccttccagg cctctgtaaa ggtgtcttag atctcagata gggagtgtaa gccggccaggc
53701 tgggctctc caggcaacaa gttaggtagg agggcaccctt cttgtcaaa gaggccacac
53761 tcgcagatga gctgtctacg ggccttgggtt ttgattgcaat tggtaatctt cacgtgtgcc
53821 accagcagt ggggaggggg gaggaggagg cctcagaggg gcccacgtca ggtgacctgg
53881 tgcctcaggc acccgacgtt ccccccacccaa ggcctgcctt ataggatgt gctggggcga
53941 gggaggaagt gaaggctggg tgctgtatctt tctgtcaat aagtgtctgg ggcctgcacc
54001 cctctgtatgc ttactaagca tgataatgtat tcagagggtc ctggccagca cttgtacaat
54061 gcttacacctt ttgctccctg agttcactgt cttaatctga ccatcattct gtaaggcagc
54121 tgtactattt gacccgtttt actgggtggg aaactgaggtc acatgggtac ttttagcatg
54181 cagtcacccccc agcagccaaat gttgttagg ttgcagaaca gggacggaga gtgatggcag
54241 gggcgccat cagcatcagc cgaggatcac catgactca tttgcctttt ccaactctac
54301 tggctggcca gcgaggcccg tggctcaggc ccatgccccaa gccgcgtgtc ctggggaaaca
54361 gcaggctctt agctgttttcc ttccctttagg ggcattactg actctgagaa catctctcca
54421 gggctccctt tctggccaccc actcccagcc acaggccccctt ctgtgggatg tcagtgtatcc
54481 ctcccactcc acatctcaga tggccctccca tagcagggtgg ggcggtagct ggctgtaccc
54541 tggaaatggg gtgcacagca ggcacgtgc ggtacatttc aatgcaaaaaa acctcagaca
54601 ccagatgtt tcgcagaagg tgggtgatgg tctgggtggac gtggaaatgtca ctggAACGCA
54661 cccagattttt ggccaaaaaaacg cagtcgtattt ttgcattccca aaggaggaaaa atagggttct
54721 catctcccccc gatgggtt agctgataca ttggggggaaa gggaaacacac tgctatattt
54781 cacttcagag tatagttgtt ggagaacttc gccttgggg aagttccaga agtatctgaa
54841 tttcttaac agtgcatttgaatcagaag agcctgggg ggtttaaaggg ccctgcgggt
54901 gtatccctg tcccaagccat attacttaca acctgtcatca ctctggatgtc cacactggc
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55021 actcaggagc tggcagcatg gaaggagcgg gcaggccgaa ggcccacggc cggaggggg
55081 gatgcgtgtt cccccccttc cctcccttgc ctgcctccctt ttctactgccc tctcccttgg
55141 ctctcataact ttccctccctc ttcccttccccc tggaaatgtt gacgtccccca gggctgtcca
55201 tgggtctctt gtcttcttccaa gtcagctctt cctgtttaaa ggcttgggg
55261 cctcttggta ctgagcccttcc cagatcagggtt tctgcagtt gagctctgccc tggagccac
55321 acctgtggcc aggccacctcc tggatcaggag gtcgcaccc tcttccctttt ccagtttcca
55381 ctccacactg ggacaagggtt agtttttttcc ttcccttccaaa tggaaatcat gtcatgtt
55441 ctgcctccctc aatcaccttcaatgtccaga aaataaaaatc cccaaatgttctt gtgggtaccc
55501 gttgtctgtat gcctctgtac acacaggcttc actttcgttc ccccaacacca gcacccagcc
55561 ccaggctccctt ccatgccgc acggccgttcc gttggccctt tatttgcacggc ccagcacagg
55621 ctcagcaccc gacagtgtt ttcacggca gcccgcacca ggtgcgtggca ttggccctt
55681 ttacatgttacat gatggggta ttgggggggt tgacagaaatg aatgagggtgg gtggcagg
55741 tgcagccaaag agcggccagg aaggggcatg gtcacgtttt aggtgttggg aaagaccagg
55801 gtcactgcac cacagtggc atggctgggg agggagaact gtcacgtttt acacagctgt
55861 gtcacttgcataatgttacat tggatcagggtt ggtcccttggg cgtctctccc tcgaaaacag
55921 tgctgtccaa tagacatata atgttacccca acatgttacccaa ttgtatatat tcagggaaagcc
55981 atattaataaa aaataaaaagg aaacagggtt aatggccgggtt aataatataaa ttttatattt
56041 cccaaatataat ccagaatattt atcacttcaa catgtttttttt attaaatgtt

FIGURE 2 (cont.'d)

56101 atatttcaca ttccccaccc ccttattcta agtcttaaaa
56161 ttgcagcagg tttgggtttg gacgagccaa atcccaagtgc
56221 gtggctccac cctggtcaga gagaccccg aagcctcagc
56281 gggggagggg ggagggagag cagagtgtga cttgcacatt
56341 acttgagatt agttggctgc tttaaatac cagacagttt
56401 ctggtttct taaaaatta gaaggctca gaactctgca
56461 cgctcttgc cctttacag agtcccagct ctcagggtcc
56521 atgagatgcc tggccactg atacctgatc tgtgcctag
56581 gctctgagac actttctgac atgtcccac atgctctgac
56641 acactgacat gttcctgatg gctctggac actgacatgt
56701 gaggagcccc cctgttgtgt gctagggct ttacccatgc
56761 ttgaccctgc aaggcagata ttccctgtg tacccatTTT
56821 tccagctgg ttagcagctc tcccaagtc cacagtaggt
56881 tgatattgaa caggaaaaaa ttgaaagcaa tccccctaaa
56941 gtccactctc accccctcta ttcaatagag tactggaagt
57001 aagagaaaaga aataaaaggg atccaaatga aaaaaaaaaa
57061 ttgttcatcc atgatatgtat tctataccca gaaaaccctg
57121 ctagacttga taaacaactt cagtaaagtc tcaatgttat
57181 aacagaatgc ttgtccctcg gtactgcaag gaaaatcag
57241 ttagcaagcc aattttactt tctgcagaaa gggtgctct
57301 gagcacaccc gaataatggaa gagaagcaat ttttattcc
57361 ccgtgtcccg tctcattgg ctggagccaa acctcacagt
57421 ctaataactt aaaactttc taaataggtaa aaagcagtgg
57481 agttgcttat gaaaggactt agaaaagttaa taacatttcc
57541 ctgcaagctg ggacatgcct gtgagcacgt ccagcacaaa
57601 gacatagaat gtactcattc ctttataatct aacagctaca
57661 agttattagc acaaagcgaa aaggctaaaaaa aaaaatttt
57721 tctaacaat aatttactcc ttaacaaaaaa aaaaacttt
57781 caaaatcaatgt gtacaaaaat cagtagcatt tcttttatt
57841 acccaggctg gagtgcaagt gtgtgatcgc agctcactgc
57901 aagcaattct cctgcctcag cttcccaatgt agctgggatt
57961 ctggctaaatt ttgttatttt taatggagac ggggttcc
58021 caaaactctg acctcagggt acctgccccatcctggctcc
58081 cgtgagccac tttttttttt ctaaaaatca tgacatcc
58141 gttcaggctg agaaccatata caggaacgtg gtatctcag
58201 caaaataaaaaa taccaaaaaaa tgatccaccc caaggaggt
58261 ctataaaaaca ctgtgaaag aaatcataga tgacacaaaa
58321 taatgggttgc gaaaaaaagca atctacagat acaacacaat
58381 catttttcac agaatttagaa aaaaaaaaaatcc taaaattcat
58441 aatagccaaa gcaatccttag gaaaaaaatcc aagactggag
58501 aaactataact acaagactac agtaacaaaaa acagcatgg
58561 acagagatca atggaaacaga acagagaacc cagaaataaa
58621 tgatTTTGA caaaatcaac aaaaataaac aataaggaaa
58681 agtgttggaa aaactggcta ccttatatgca gaagaatgac
58741 catatacaaaa aattacctct agatggatta cagactaaaa
58801 acattctaga agaaaaccta ggaaaaaaatc ttatggacat
58861 gactagacct caaaggcata tgcaacaaaaa acaaaaaattt
58921 ttaaagagct tctgcacagc aaaacaaact atcaacaaag
58981 tgagagaaaa tatttgcac tatgcacatcca caaacgacta
59041 acttaagaaaa aaacaccacc attaaaaaagt gggcaaggg
59101 aagaagacat acaagtggcc aacaaacata tgaaaaaaatg
59161 gagaaaatgca aattaaaacc acaaagggtt accagtca
59221 aaaaaatgac agatgttggc aggtgcaga caaaaggaa
59281 cagtgttaaat tactccatc cctgtggaaa gcagtttgg
59341 atagaattac cagttgaccc aacaacccca ttactgtgt
atcagggtgtg aactttgcac
ctccagagcc ctggggccca
actccctgag gaccaaggag
aggcgtgcct gtctgtttat
cacataaaaaa ttgaatgac
cccaggtct cacagaacta
ccactgccc acccgTTG
aatgctggc tgcctggcat
atgttcctga tggctctgg
tcctgacatc ctctggggcc
tatctcaattt aatctcaact
acatgggggg aaactgaggg
aaagagctca gccggcaaca
aactggaaca agacaaggat
cctagtcaga gcaatttaggc
aagaggaagt caaattatct
aagattcctc caaaagactc
aagtaaaatg ctgttttaga
catttagaca aaaagtttt
cgcagatgga acaatggcga
tacgcagctt gtccctgcta
ctaaactaaa acccgactgg
aaagacaaag gaaaagagga
aaataaggaa ggggcatggg
tatcttggaa aaagtacaag
tatgataaggg cttaacaaaaa
ctttagaaaaa aactatttt
gactttctac actcaagata
tgagacggag tctcaatc
aacctccgccc tccaggttc
acaggcagggt gttaccacac
catgttggc aggtggct
caaagtgtg ggattacagg
tatgcaccaa caatgtttag
ttacaatagt cccccatata
aaagagctct acagagagaa
aaatggaaaa acatcccagc
tccttatcaaa ttatcaacat
atggacccaa aaaaatagcc
gcatcacatt acctgacttc
atactggtag aaaaataggc
gccatataacc tgcaaccaac
ggacatccta ttcaataaat
gctggggcccc tacctctc
tgtaagactt caaactttaa
ttccttaggc aagaatttt
acaaatgaga cttaatcaaa
taaacagaca acctacagaa
atacccagaa tctatgagga
caggaacaga cacttctca
cccaacatca ctaatcatca
atggcttata ttaaaaagta
tgcttacaca ctgttggtgg
gattttgcaaa agaactgca
cctacccaaa ggaaaagaaaa

FIGURE 2 (cont.'d)

59401 ttgttttacc aaaaggacat aggcacacat atgtttattg cagcactgtt cacaatatca
59461 aaatcatgta atcaacctag gtgccatca atagtggcac cagataaaga aaatgtgata
59521 catgtactcc aaggaatact acatagccat aaaaaagaat gaaatcggt tctttgcagc
59581 aacatggatg cagcttagga ttggcactta agccataatc ttaagtgaat taacccagaa
59641 acagaaaatc gaatactgca tggcttattataaagtggg agctaagcat tggcacaca
59701 tgggcataaaa agtggaaaca aaagacactg gggactccag gaaggggagg gagggaggaa
59761 agggttggaa aactgggtat tgggtactat gctcgttatt tgagtgtatgg gttcaataga
59821 agcctaacc cagcattatg caatataacc atgtaacaaa cctgcacatg tacctgaatc
59881 taaaatttta tatattaaaa aaaaaaaaaac tggcttgacc agtaaaaaaa gagctgaatg
59941 aggtggcc cagtgcctg cctatttcag cccatcactc tcccttcgc ttcttcac
60001 ctcccggcct gaccggcct cacctgcca tctcctttag gcttgcattc actgagctgg
60061 gcctccccca accatccctt cacatccctt cactccgtc caggatttg gcctgcattg
60121 ggatgccaga acttgcctg agcaatttgg ttttctttaaa tttgtttttt gggtaaggaa
60181 gtagcttgc gtttctgatt agaaaagaat atgtgttat cgtaaaaaga aatctgagtc
60241 atgacaggag agcctgagaa agaaaacatc atctcatctt ccagcgccca gggataacca
60301 ccaaattctg gggagcctcc tttcataggt ctggcatgt gtgcacattt atctgtccaa
60361 tttccatca actgaatatg attataatca acatctgtct ctggcttttgc tccacctgtc
60421 ccccaactggg ccacatctgt gttccttacctt ggtgacactg cgtccttgc tcccatgtct
60481 ggcacagtag gcctgctgca tccttgcattt cattttacat aagttagaccc atgcccattt
60541 ccttagcgt ttgaaggagc tatttgtata cgacagatat gtatcctta tcggccctt
60601 gtgtcttggg ttccactgt taactcattt tggagacccc tccaggtcag ctggaaaggga
60661 accaaagcat tccttcaaa gacgcctcaa cattttatgg tgaggacatg gaagggctca
60721 ctcactcaat cctcttctgc cttcagactg ttttcaattt ttttcccat cacaactat
60781 gtcctgttg ctacccacac acatttgc ttttcatctt gctgagtggc tgctagcgaa
60841 ggctgagct tgggggtttt ggtatgtttt cgagtagaca gtgcctgccc tactgttct
60901 cagacagttt cactcttgc gtgcacacact gttcgtgtc actggctgtc agaacactta
60961 aacaataaaag tcccctccag tgctcctcca attgagacgg ggcaggggcc tcctttagg
61021 gcactgttgc ccccaagcccc cgcaacaggg catggaaatc aaggaaaatc ccgatgttct
61081 tgaagggaag ttccaggcact tagttagcc ctggaaaata aatgaccaac ttgacaaaca
61141 agagggttac acgcgcctaa aacaacagcc aaggaaagcca gagtccttggg ctgtttgggg
61201 ccctctggaa actaaagaga acccctgaac atgtgtctt gatgtttt tcagaaaccc
61261 agaccccccac caaaccgatc cactggcaca gagacctcg ataaagacgg actgaggact
61321 gaactctgag caggtctttt gttctaaatt tcttccttggg gggcttggg gaagtccgc
61381 ccacaagccca cagctaacat tccttctgg taacccaaat ttttaatgaa aacttctt
61441 ccttaaccaa ttcaaaaaca acaaattttt gaatctacact atgaccttggaa agcccacccc
61501 cacttcaaga tatcccggcc ttttaggcca aaaccaatgt gtacccttca tggatttggatt
61561 aatgatttttgc cctgttaact tctgcattt ctggaaaattca ctgttgcctt aaaaacccctt
61621 acctgcacgc catcaggagg ttccggctt aagagtggc tgcccaattt tccttttttgg
61681 gtcggccaa taaatgcctt gtgttctgtt agattatatc ccaatctcg tggttgggg
61741 tgctgcactg ggcaagcaga tcccagtcac gctcggtac acaactgtcc tcggccacac
61801 agcctaacc ccagggccct ctggccccc actgcaacat gcacctgtt cagcaggcgc
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61921 ctgaccttgg gtcggccagg cccaccaggat atccctgtt gactggccagg ctgcacaaac
61981 tcatgagcag agcatggggc tccgtcctt ctgggtctg ggagttaccc tttttttttt
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62221 tggaaaggag ctaccgtgtt atcatagata ggcacatctt agctgttact tctgttatgg
62281 ttactcaccc taatctctgt ttgtttttt ggcttgggg atggtttatac actcaagttt
62341 taaaacatca cataatcaaa tatgttttgc tttccctta taacttcttgg gtttccctt
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62461 cattttaaatt ttacttcat ctggatgtt tcttttctt ctaagcaact cctctacatg
62521 atgagattta ttgttggaa tggcatgaca gagcagtccaa attaattttt ctctctatgc
62581 aaaggcagtg tgatagcatc attaaaataa tatccctttt tcactgagtt gaaaaaccc
62641 cattgtgata cactgaattt ctctgtgggg gagtccattt ctggatctt ctctataactg

FIGURE 2 (cont.'d)

62701 tcccccaatt ctctctgtt tcaagcacag tgtctgcta acagtaacct tacaaatcca
62761 gcaaggaaaag tgttccctt gtgttttct ttactttttt tttttttttt aaagataggg
62821 tcttactctg ttgcccaagt gggagtgca gggagcacc atggctcaact gcagcctcaa
62881 actctggac tcaagccatc cttccacac agccctctga gcagttggga ttacaggcat
62941 ggcgccccat acctaatttt ttctattaat tttttttttt tttttttttt tttttttttt
63001 ttgggtgccc tgcctctcta tgggttttta atttttttca aaaaattttt gactatgcta
63061 gatttctttt tccatatgaa tctttcaatt ttttaatttgt tttctctctt ttttagttcc
63121 tcttcaccac caccacaccc ccaccaagaa agataaaaaaa ttctggctga aattttactt
63181 ggaagtgcatt taagtttta taatagaatt tggttagaact gacattttta cagttcctc
63241 cccaatataca aatcaactgtt aagagttcat tttttttttt tttttttttt tttttttttt
63301 gcccgggtgcg gtagctcagc cctgtaatgc caacactttt ggaggctgag gcaggcaaat
63361 cacaagggtca ggagttcgag accagcctgg ccaacatggt gaaatggcgt ctctactaaa
63421 aatacaaaaa attagctggg cgtggtgca ggtgcctgta atcccagcta ctcgggaggc
63481 tgaggcgagga gaattgcttg aacctggag gttggagggtt cttttttttt tttttttttt
63541 actgcactct agcctgggtg acagtgcgaa actccatctc aataaaataaa ataaataaaat
63601 aaataaataaa ataaatqaat aactttatag tttttctta tatgggcatt atatttattt
63661 gtttagtatgg agaaaaggcta ttgattttt tgagaaatat atttatctaa acactttgccc
63721 aaatgaattt attaatctag tagcttttaa aaaaatttaga atctcttgg ttttcttaggt
63781 ctaccatagc attaccagaa aagatcatct tccctgttct ttgacaatat gtttattgtat
63841 tgggtttccctg ttttatcatg tggtagtgc tctaaaataaa tggtaataaa aacagtgat
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63961 tatctttatc atataaagta aggttcctcc tattaattttt tattagttgt ggctattaaa
64021 tggattttttt tccctttta gttgtgaattt atataatcat aaactttatc cttatgggta
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64201 tctttttttt ctttattttt tacttggatt ggttccagc cttttttttt tttttttttt
64261 tatccagttt cagaactaag cttacaccag ctttatatga tcaattttgg gctgataaaag
64321 agccctggaa atgtcagctg tctagtgct gggtagact cagctgtcg ctgtgttaggt
64381 ctgtttccaa tcactatata gaaattggcc tattttctac aattttttttt aatttctt aattttatctt
64441 ttccttaggtt tttatccatt tctcttaattt ttcaaaattttt tgccatattt ctctcatattt
64501 aaaaatatgt aatcataatt actgttcttt tttttttttt agagacgggg tcttgatatg
64561 ttgctcaggc tagactgtg tggctattca caggtgtgat catagcacac tacagcctca
64621 agtgagccct ctgcctcagc ctctcaagta gctgggacta cagttgtgta ccacccatggt
64681 gcctggctat aattactttt tttatgattt cttttttttt ccgaatctt cattttttttt
64741 ttctatctt tttttccat cagcctcatg aggagggtt tattattttt tttttttttt
64801 ttcaaaagaaac cagatcttgg atttactatc ctctggcttt tatttgcttgg agtctttata
64861 gtttgc当地 tttccattt cagaagaaga aagagaccca ggaacatttctt gttggcttgct
64921 caaggccc cagcctgta gcaagtgc gtaactggaaat ttaagctagg cccctgactc
64981 caggctgtc caagagatct ctgagccaag cttttgaagg caccatcagt ggtgcctggg
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65101 gtttcagttt ctttaggcaca gggcttctct ctgttaacag acaggaagct cctctgaggc
65161 tacgtgcccc tgggagactg tggggagct ggaatctaga gtcagatgac ctggcttgaa
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65281 atcaacatca atagagccca ctaccttagga tgggtgtggt gatgattaca caaataaaaga
65341 taggttacatc aaaaccccag tggtcaaattg tgcttcagaa tccacatacat atcacattga
65401 agcagtgggt atacttcatt atgtgccata cccctccca tccagaattt ttaggatttt
65461 actatttac aatcgaacag agcagtattt ctgcagtgat cccacatacat atcacattga
65521 atggaaaaaaag cctctaaata acctcaccta ttgcttcaaa gaagggttggt ttacaaaacaa
65581 tgaatttgc gcacagttt gaaatatgca gcagtttca gatttttttag atttagaaatc
65641 gagggtaagg gattgcggac tggcagttt aaccatagg atagccttgg catgtggctg
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65761 tatttgctga atgctcatct ggcagtc tccatgtgtcc tctgcgtcgt tcctccctac
65821 tcccaggggac ctatgcccag tccagtc tccatgtgtcc cccatgtgtcc tctgcgtcgt
65881 cccagcctgg cagcaggctg gtgcagaa cagggggaga cccatgtgtcc tctgcgtcgt
65941 ctttcctcc agggtctccc tcttcctctt gcctcatctc cccatgtgtcc tctgcgtcgt
66001 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt

FIGURE 2 (cont.'d)

FIGURE 2 (cont.'d)

69301 cgaccactga tagatgtcta ttcttggatgg agacatggga tgattattt ctgttctatt
69361 tggcttagt ccaattccct gcacatagta ggtacccaat tcaattacta ttgaatgaat
69421 taagaattgg ttgcataaa aataaatcag ttcatataaa atgggtcttg ttcatgtgt
69481 tatattccaa tcaccccaa cagctcactg ccacatcccac caccaagaga aaaaaaaagg
69541 catagtcacc gtgatttat caaggcaaaa gcctcccccac ccaagtcgtt atagaagggt
69601 cttttcctt caagcagtgt ctactctt tggacacat cccaaatgtc accacctctg
69661 ggaaggcattt cttggctctt gtctctaccc tggatttgc agaacctctg ttcttgc
69721 ctctgtggtc tctcccttgg gacaggagcc cctgaaaggaa cagaaaaacc actttat
69781 tgtctgtgcc ccaggctgg cataaggcac cagactcag ctgttcttc ctttcctcc
69841 tgaagggca cctagtaat ggatattagg cattgtctt ggagctgggg gcttatttt
69901 tcctgaggca gggttctta catgacataa aaaataaaaa tgggcagggc ggggtggc
69961 acgcctgtaa tcccagcatt ttgggaggcc aagggtggag gatcattga ggtcagaatt
70021 caagaccaggc ctggccaaca cggtaaaacc ccacatctac taaaatataa aaaattagcc
70081 aggcattgtt gcaaggatcc taaatcccg ctactcagga ggctgaggca ggaaaattgc
70141 atgaacctgg gagacagagg ttgcagagag tggatatcgc accactgcac tccagc
70201 gcaatagagc gagactctgt ctcaaatatgt taataaataa ataaataaa taaataaa
70261 acgcattctc ttccccaggc ccaagtagc agagcccgct ctgagccgtt gcatgggt
70321 ccattctcctt cgtgtcaca tgcccaactc ccagccctcc agcccttgc ttccgaatca
70381 tgtcatcagg gtctccatg tctcttggaaag gtgttccag tggcaggc catcagctca
70441 gtgtctgggt aaaggcttctt acaggcccg catggcatag gggggaggtg tgcattgc
70501 cctgaagccca caaggcttgc tgaggagacc tgactattgg ggtggggact agagactg
70561 gtcagcccc ttaatggccc agactccctg ccattccctcg gagaatttcc caccacactt
70621 atgaatgatc ttccggacag gtgacataa catacagctt tggtagagggc attcagctcc
70681 atgcactgt gagaatgaac ataccaactt ttagcaaca aggccatgtg gtcaaggaga
70741 gaggagaaac gaataggat aggccagggtt ggtgaagcag gtctgacatt ggcaaaatg
70801 acagagaagg atgggttgg aagggttca gatggcagag aacctctgaa aaagtctcat
70861 gccagctaat gaagagtctt caaagtccacc atcacagaaa tcttacatct ggcagaaatg
70921 acacaaatggc tttggcatga accccacagt ggatccaaac gtgtggcagc tgagatcg
70981 agttaattat gttctgtca gtcggcttctt ctgttccctt ggagctgggt atctgat
71041 cacagctcca ctgttaccac aggagaggaa gaatccaaa ttctgtgcat agactgtca
71101 aacctcttgg tgaccctaa gacacatgtt cataaggca actgcaaaaca gccaattt
71161 ggataaaaca gcctgtctta ctctgtttgt gctgtataa taaaatacct cagactgg
71221 catttatataa gaacagaaat tgattctca cagttcttgg ggctggaaatg ctaagagg
71281 gcaactggcgtt ttccatgttc tggtaaggaa gggatcagt gtcgtccca agaggatgc
71341 ctctgtgttgc tgccttcacc cagcagaaga gcaaaaaagg gcaacatcc taaaagc
71401 cttttataag gacatcaatc cattcatgag ggcagaaccc tcaagaatata atcatttc
71461 aaaaggcccc tcctcttaat gccatcacct tgggtttaa gttccaaacac atgatttt
71521 gaaggacaca tacattcaaa tcattgcaca accaaatgtt tatttgcact ttcaaataat
71581 ttgcagttt agatcaacta agttaattgtt ttgcattgtt aaaaacatca cagccggca
71641 cgtggctca cgcctgtat tccagcactt tgggaagcca agtggggcag atcacttg
71701 gtcaggagtt cggaaaccaggc ctgaccaaca tggtaaaacc ccatttctac taaaatata
71761 aaaattatggc aggcggccgg gcgtgggttgc tcatgcctgt aatcccaatgtt cttgggg
71821 ccgaggccgg tggatcacaat ggtcaggaga ttgagaccat cctggccaaac acagtgg
71881 cctgtctcta ctaaaaatgc aaaaattagc tggtagact actcggggag ctgaggc
71941 agaattgtt gggccggat cgtccatcg cactccagcc tgggggacaa gagcaagact
72001 tcgtctcaaa aaaaaaaaaa gaaaagaaaat ttctggatt aggataatgt tctatattt
72061 gataagggtt tagtttaccc agatagatac atttatcaaa agtcatcaaa tggtagactt
72121 cagatgtacg catgtcactg tatgtaaata ttacccaaa atcaacaaga accatg
72181 aatactgtact tcttagtgaac gacatgcata ctgaaacttt cgttagtgaag tataattat
72241 gctgcagttt actctgaaat acataaaaaac ctaagttgtt gggtaatac agtgat
72301 agatagaaat ctgtgtaaa gcatacggag aaaaatgtt attgttagatt ctgggtt
72361 tatattattct cactatataa taaaacgttt ttatgtttaa aatattttat aatgtt
72421 aaccatgaaa tcctacctaa cgcagtaaga caagaaaaag agataaaaagg tataat
72481 gggaaatgtt aaataaaaacc gtcttggtaa gcagatgaca tgctcatctt tggtagaaat
72541 ccaaaaagaat ggataaaagaa actcctggaa ctaataatgtt gttacagttt ggttgg

FIGURE 2 (cont.'d)

72601 tacaaggta atatacaaaa gtcaatcact ctcttattca ccagtaatga acaagtggaa
72661 attgaaattc aaaacaaaat actatttaca ttaatactcc aaaaatacat acttaggttt
72721 aaatctaata aaatacatac aagatcttt tgaggaaaac tgcaaccctg atgacagaaaa
72781 tcaaagagaa actaaagaaa tagacataag taaatattcc ccagaaagac tcaatattgt
72841 caagatgtca gttcttcaa acttgaccta tagattcaat gcaatcctaa tcaaaatctc
72901 agcaagttat gttgtggata ctgacaaact tattctttt tttttttt ttttttttga
72961 gacggagttt cgctctgtt cccaggctgg agtgcagtgg cgcgatctcg actcactgca
73021 agctccgcct cccgggttca cgccattctc ctgcctcagc ctcccatgta gctgggacta
73081 caggcacgcf ccaccatgcc cggctaatt ttgtattttt agtagagacg gggtttcacc
73141 gtgttagcca ggtatggctc gatctcctga cctcgtgatc caccctgtctc ggcctcccaa
73201 agtgctggga ttacaggcgt gagccaccgc gcccggccaa cttattctaa aatttagata
73261 gggaaagcaaa agaccaggaa cagctaacac aacaatatag tagaaaaaca acaaatttgg
73321 aaaatggata ctacccaact ccaagactt ctataaagct acagtaatca agatagtgc
73381 gtattggta aagaatagac aaatagatca atggaacaga atagagagcc taagaaatag
73441 accttcataa atacagtcaa ctcatcctt acaaagttagc atagacacta caatggagca
73501 aagattgtct tttcaacaag tgggtgcagga acaactggat atccacatgc aaaaacaaac
73561 aaacaagcat gaatcttagat acagacctt tgctcttac aaaaatttaac tcaaaatgg
73621 ttatagatct aaatgtaaaa ttcaaaacta taaaattccc ataacatagg ataaaatcta
73681 gatgacctag gtatggctat gacttttttag acataacacc aaagccatgg tccatgaaag
73741 aaataattgg taagttggac ttaattaaaa ttaaaacctt ccgctctgca aaagaccaca
73801 ctaggagagg gaggaaat ttacaaagac acatgtata aagaattgtt acttaaatta
73861 tacaaggcct tcttaaactt aacagtaagg aaacaatctg attgaaaaat gggccaaaga
73921 cttaacaaa caaaagaaga tatacaaatg gcaagtaagt atgtgaaaag aagctgcaca
73981 gctggggggc gtggggctc acgcctttaa tcccagact ttgggaggtc aaggcgggca
74041 gatcacctga ggtcaagaga ccagcctgtc caacatggaa aaacatgtt ctactaaaa
74101 tataaaattt gctaggcatg gtatgcattt cctgtcatcc cagctactt ggaagctgag
74161 gcaggagaat cgcttgaacc cggaaaggtagg aggttgcagt gagccaaat cgcgccattt
74221 cactccagcc tgggcaacaa gagtaaaact ctgtctcaag aaaaaaaaaaa aaaaactgtca
74281 cattctatgt tatcaggaa atgcaaaattt agaataaacgc aataacaaga taccactaca
74341 tacatattag aatggccaaa attgagaaca ctgacagcac caaatgtgga ggaggatgt
74401 gagcaacagg aactagagag aatgcaaaat ggtatagcca cttaggaaga cagctggca
74461 gtttcttaca aaactaaata tactcttacc acacaatcca gcaatcacac tcctggtat
74521 ttacttacat cccacaaaa accctcatat ggatgtctag agcagcttt ttcataattt
74581 tcaaaacttg gaagcaacca aagatgccct tcggtaggtg agtaataaaa taatatccag
74641 acaatggaaa taccatttag tactaaagag aatgagcta tcaagccatg aaaaaggcgt
74701 gaagaaactg aagtgtgtat cactaaaagt caatctgaaa agggtgcata agttccaaa
74761 gatatgatat tgcagaaaaag gcaaaactgt ggagacagta aaaagattgc cagggctag
74821 ggcagtggga gggatgaata ggcaggcac agaggattt cagggcaata acactactt
74881 gtatgacact ataatgttgg atacatggcc agatccacag aatgtagaac accaagagt
74941 aaccttgaac tatggacttt gagtgatgag gatgagtcag tgttaggctca tggattgtaa
75001 taaatgcacc actgtgggg gggggggata ttgataactg gggggctgta catgtgtagg
75061 gacaggagta aatggaaat ctctactttt gttaccgggt gagggtgtac cgcattttga
75121 acaaaaaattt ggacaaaacg cacaagcaa ggaaagaatg aagcaacaaa agcagagatt
75181 tattgaaaac gaaagtacac tccacagggt gggagcaggc ctaagcaggt ggctcaaggg
75241 cctqaataca gattttctg qggtttaaat accctctaga qggttccatt qggtacttgg
75301 tggataccct acgcaaatga agaggatgaa gggaggtac aaagtttattt acttgggtgt
75361 gaaaatttagg gttttccct ttatattgt tggatggatc ctttaggtt cctgcctcca
75421 gacccttattc tcctgcctca ttttattccct aattttgtt gtaacctaaa attgtctaa
75481 aaaatgaaat cttaaaaca agaaaataaa cttaaaattt gcaaatatgt gtcacttaca
75541 taaaaacaaa gaatttagtgc ccctacatca ggaaaaaaac acctataattt caatgtaaaa
75601 atgcaaaaaa gccaagagaa atggccaagc catggaaattt cacagaagta gaaataggca
75661 gtaaataaaac aatgctcaat ttcatatttgc tgagaaatgg agagtaaaac ttcatgt
75721 tacaaggag taacaatcat tttaggaaca attttaaaaa taacacttgt gatgtggctc
75781 aggaaagattt catattctca ctgttaggaag gtaagtgaat catttttagag gtcagtttg
75841 caacttagaa gatcaaatgc atctaccctt ttctacttc tagaaatgtt tcttcagaag

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FIGURE 2 (cont.'d)

T E T R A D

75901 tgcccctccc tccctcacac accccaagt gtacaaaaat aaatgacatg gatgtggact
75961 gcagccttgt ttctaataacc aaaaatcagt aaacaaccta aaaatctgtt tccatgagga
76021 tttaaagaaa tcctgcatga gtttagaaaga ataaggtaga tgcctgggtt ctaacataga
76081 aaatatcaaa ctgggtgtt gatgaaaaaa gcaagttca aagttagtta atgtgtaaat
76141 gcagtaaga aaatacatca tatataatgt actttctatg tatttaccta tatgagcggt
76201 atgcctccaa ctgcatacgct gtggctccgg gagcaggacc ttgttaacaga gcctctgccc
76261 ctgactgtcc tgagggcct tccctggga aaggaaccag gtttgattt cagtccttt
76321 ttttatcacc atgctgacag ctttgcttgc catatgcctt tccctccgct gtactgattt
76381 taccttacag aagctctcct tagtgcttca tcagacactc cctctttcc aaagaaaaga
76441 cagccgcatt ccatggtcat ctgggtgagc tcgaggtgag ccccaggat catgtgcctc
76501 ccaccaggt gacaccccaag tggtagggag ttgccccctg gcttttcga ggccaagcaa
76561 ctcagaggtg tggcaggatt gcatgtcaca gtggcacttc caaggccctg gagagtgact
76621 caacgcctt gttattaaga tgtcacacag gctgtgcagc aacaactcta gggacaccct
76681 tcacactgac agagttggca agctttcct ataaaggggc acacagtgaa tactgttaggc
76741 ttttagggcc atactatctg tcccaacaat tcaactttgc ccactgttagc tttgtatcaa
76801 ccgtagataa tattaagtga atgtgcactg ctgtttgcta atagtttatt gacaaaaaca
76861 gctgttttgc agcagtttgc taccggaca gagactgtgg ggagtccctg gtggcagcga
76921 gctacagggca gccagttaccc catcaatgtg gctgtttca tccctcaag cctgcctgca
76981 cccagacact gtcgagttg ttttcgaaaa aacttcctaaa attccccaaa agcacagtgg
77041 ctccccggaga gccacccccc tcacccctt acagggcag gttccttcc cggttccacc
77101 ctccctcaga cggagctcag gggccatccc cacccctct tggcccaag cacagaccc
77161 cccacacagg ctcagcagct ctggggccct gtccccccacc tggagctgca ggctccact
77221 cctggggaca gctgtgacca tggctctgca aagcagccctt gtgcctagct cccaaatgt
77281 ctggcagccc agagttggaaac aattctgtgg atcacctctg agacagcagc acatctggc
77341 aagcctggct tcccaacccct cacccctctg aacccctctgac ccttgcctatg catgtggtag
77401 ggaagctgca accaggcctc agcactccca gacccgttgg cgggttgc tctgaggatc
77461 gtggcactgc ctccctcaga aggcccttgc agagccaggg gatgcagcgt ggcagagctg
77521 tcaactggcaa ccctgttgc ctccctgggt ctccctcaga tggctgtgg gtcaggacaa
77581 atttctatgg ataaggctgg atcataatgt agtgcctat ggtcatgcag cgacagactc
77641 gaggctgc tcttcaggg tggtaggtc aggttaggaac gggatgtttg aagaagcac
77701 acctgtgaga aatgcctgtt ttcaatccca tcccacacac tcgtccagac actgcccagcc
77761 caccccccac acacgtgtct gagggaggtt gaggaaaaaca gacacccca ggagccgcac
77821 actatttctt gatgtgtaa ccagacaaacc ctggaaaggaa ggtcaggaa ccggagtgcc
77881 tgccaacgtc cccagccctc ctgcagccaa acactctcat ggcaaaactc ctttttaag
77941 aaggcttta ttgctgcaat tagacatccc agtgtatgc acaaaccccc ctgtacagag
78001 atttattcaa gtggtaatac tgagaaacag tgaacacaca caaaagaata caaaactaga
78061 catttagatc actagaaaact ttctaaaggta agaaaaattt caaatgtgaa gtgccttta
78121 gaaactacac cacacatgcc agtgtaaatt tggtaaca atcaatttct ataaacattt
78181 catctaactg tgcactgtatc aactgcacaa cttcaacaat tacttccaag acaaagataa
78241 atgcctttat ttccctatgt tttggctt ctttggctt ctttggctt gagacagaag ctgcattgtt
78301 caaaccagat tcaaaaggaa aagcacttca aaacagaaag tacttcaatt gtgtatttgc
78361 cttcagccac atccagagac ttgtggatct caccgggtt gtcggccccc ttctccaacc
78421 ctgaagccca cagcagggtt gcaaggccag ccccaatcg tgcagacatc acccgaggct
78481 cccaaactgg cccagctgcc tgaggcctgc atgcctgtgg ccaggttagga ccatgtgc
78541 gttttgaaaa ctaggcctac aagactgaag agtggactga agcaaaaaagg ggagaaacat
78601 tagaggccca ctaggttggaa agaccccttta tagatgtttc aggaaattt cacaataaac
78661 ttggggcacaat agacccaaatt gctgaggcca gaaggctgtt tatggtagtgc tgactttatgg
78721 ggatgttgggg ccaaatcaga gagggctggc tggtagtacc ccagaccact tgcctcttcc
78781 cttcccttgg cttccaaata ccaggccccc tggcccttgc accttcaattt ggggttctat
78841 atgggtcaac cttccat cttccat aaccctgtt cttccat cttccat cttccat
78901 ggaagctgg gatgttggaa caccctttttt aaccctgtt cttccat cttccat
78961 ggaacatgg cttccat cttccat cttccat cttccat cttccat
79021 atgccttcaact gttttttttt gttttttttt gttttttttt gttttttttt
79081 accttcaaga aaagaaaaagg caaggggggg gttttttttt gttttttttt gttttttttt
79141 aatgtgtgtt gttttttttt gttttttttt gttttttttt gttttttttt gttttttttt

FIGURE 2 (cont.'d)

79201 aaggagaggg gcttcccattt agaatctggc tgggcattggg agggatacag ggctcgtt
79261 tcaaggcacc tttggccatag tgggggtgccca gctacattgg gtggggatgcc caggggctgt
79321 ccctacctaa gcactttctt gtctacagga agtcttggtt ctttcaagt tcagcataag
79381 gggttccata tggtaagtgg ggattcacac tttagaaaatc tatcctggtc ttcacctgaa
79441 acactcatct actgctgggt ggcaggaaca agtatacaaa accaggggccc ttgcctggc
79501 agttcctaag ggacattggc agggctgacc tgggattcaag ctccccctgag tggacagct
79561 gtggttgcct ggggtccccca ggctgagaag ggttatgggt aattgcacct cggggcacag
79621 tgaacacagg cacgggctgg atgtgcctg ggagacagaa aggagaggct gacatttct
79681 caggagctgg ctatggctgg acagtgcctg cccggccaga ggaaggccac agcagagcc
79741 ctccacagac taagacctgt gttgccaagg aatcagacac tggcttgag gagacaggag
79801 gacaaaggct gctgcttatta agcccacacc gtagcttaga gatccttcag cctcctggcc
79861 ttcaaaaacaa actccaggc ttccactctg aaaggcaaa gaatcacctc gtgttgc
79921 catcccccta gcaggatgaa cgaaacgcct aaggcccaa aagactgagg gcaggacccc
79981 cagcatctcc catctcctcc gtgcagctg ggtgagagaa tggcttgaa aggaagcatc
80041 tgcgctacat tggcttcag gccccccag caacttccc ggaggtaact attgcctgg
80101 aaaacttagga aactgggtt taaaaacaga attttaagca gacttttag agggacaagg
80161 ccatttgatg gtagtgattt tggtttgtt ttatgaaaat ggtacaggtg gtaatccctg
80221 atgacagaat gcactgagag tggggccaag ggcctgaa gatcctgtct gttcagctg
80281 gttaaaggcga cagctggcgc ggcattggc cggggagcag tggcacagcg gaccctgca
80341 gtttgctcac acctggccct cgtcccagag ccagccacc tgcctcttgg ccctggtagt
80401 gactccacag aacttccccg agcagaagcc tcacagtggg ccagcaccca tcttgc
80461 aagggagaac ctgcatgcag tgcacacacc cccggccagg tggcacatgg ctgctctt
80521 aatgtgaagc caacaccaac tggagagatt taactataaa ggaatatttt taaatattc
80581 agttttgtt tcattactca cttccttcc ttccatttcg atctcagaaaa ctgttctt
80641 tcagttgtga caaaaaagaa atgtatggc caggtctaca aagtaacacc ttgtcataaa
80701 acaggctcaa aagcatagga atcatgtttt aattgccatt tagcatccac taattcccat
80761 gagatctgtg attaaaaaaaaa aagcctctgg cctgcttgc ctgtcttaaa agtcatgagt
80821 ctgttttatg aacagaaaga atgcacgc tcttagcata tgtaaggca aatggattt
80881 tgatctctca tgatgtaaag gagataaaaaa ggttaaggaa ggaagatttc taagtgagac
80941 ttttttgag tgtaatccc gctggacaca catattacaa aataaagatt ttcttctgta
81001 aagtgtcttt tgctcagtga atcatgcgc accacagac accatggctc cacctgctca
81061 agagcatgga ggaggcagca tcggcagagg gcaggcagga gtctgttgg ggggtctgt
81121 ttcaataccca tctctgggg ttcgcgtga tgcagaggg atcttctcgat catggctaga
81181 cactcccaa tgcgtgtc caggctgggg accactgcaa gctggaggcg gctggatc
81241 agggcctggg caccctgtc ctccttc ctttggatt ggcattttat tctctcattc
81301 agctcaagac catggcagg aactctgtc gtccttcattt atgtcatcat ggggtctcc
81361 actttccac agagctgcca ggcagaggca ggacccaggc atgcctggcc cacaggaagg
81421 ttttcttagga gactaaggag gtttagaaa aagagaaggc actataaata gtcacctgtc
81481 cagtctatgc tattaaagga cataagaaag gtatacaatt ggcagtaaac aattccctt
81541 agctttcat ggatgtccag gaaaatgaca acccgacac aatcagacgt gaatgattt
81601 tgctccagt tcttcaggct ctgtgcaca agaagagtt gtgtcggaa gacagattcc
81661 atatccatgt ttatttcaa agttggctc ttttagtga gattttcaaa aaatattctt
81721 tttgcttgg tctggacagt ttgaacata gatcactcta ttataggct tgagtctt
81781 ccacaattgc acatacactt tacactgaac atacataaaa agaagtccctc cggtaagcc
81841 gatggccaca accaccaatt tagtccaaaa gggccattt aggattctg gaaggaaaa
81901 actcagccta ttagattttt ttttagat gtcctcacc cgggctgaa gnnnnnnnnnn
81961 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnn
82021 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnn nngcgggtgac tgtgacattt
82081 tcgggggaga gggaaaagga gagggagagg gagagggaga gggagaggga gagggagagg
82141 gagagccata tggtaagtttt agtagttttt ttccttcaattt gagaagaagg tcattggtag
82201 cttgtatgggg atggcaatga ctctataat taccttggc agtatggcta tttcacat
82261 attgattttt cctaccatg agcatggaat gttcttccat ttgttgcattt ccttctt
82321 ttccttgagc agtggtttat atttcctt gaaagggttcc ttcacatccc ttgtaaagg
82381 gattcctagg tattttattt tctttgaagc aattgtgaat gggagttcac tcatgattt
82441 qctctctgtt tggtaagtgg tgggtataa gaatgcttgc gatttttaca cattgattt

FIGURE 2 (cont.'d)

FIGURE 2 (cont.'d)

85801 gtgacgtaca gatggggttt tggtgtggat gtcctttctg tttgttagtt ttccttctag
85861 aattcaggac cctcagctgc aggtctgtt gagttactg gaggtccact ccagaccctg
85921 tttgcctggg tatcagcagc agaggctgca gaacagtggaa tattggtaa cagcaaatgt
85981 tgctgcctga tcattccctc ggaagtttg tctgagagga gtacccagcc gtgtgaggtg
86041 tcagtctgcc cctactatggg ggtgcctccc agttaggcta ttcgggggtc agggaccac
86101 ttgaggagac agtctgccc ttctcagatg tcaagctgtg tgctggaga accacttctt
86161 tcttcaaaggc tgtcagacag ggacatttaa gtctgcagtg gttattgctg tctttgttt
86221 gtctgtgccc tgcctctggaa ggtggaggtt acagaggcat gcaggccccc tttagctgt
86281 gtgggctcca gccagttcaa gcttccggc tgcttgcgtt acctactcaa gcctggca
86341 tggcgccac ccctccccca gcctcgctgc cgccttacag tttggctca gactgctgt
86401 ctagcaaaga gtgaggctct gtgggtgttag aaccctccaa gctatgtgtg ggatataatc
86461 tcctggtgtg ctgttattaa agccattgg aaaagcacaa tattaggca ggagtgaccc
86521 aattttccaa gtgcacatctg tgaatgcctt ctttgcactg gaaaggaaat tccctgaccc
86581 cttgccttc ccagtgagg tgatccctca ccctgcctt ggtcacccat ggtgtctac
86641 acccaactgtc ctgcaaccac tgtctggcac tccccagtt gatgaacccg gtacactcagt
86701 tggaaatgtg gaaatcacct gtctttgc tgcgtcatgc tggagctgt agactggaac
86761 tggtcctatt cagccatctt ggctccacgt atatccactg ccacacttct ttagtcataa
86821 agtgagtgcc ttggtcagag gcaatgcgtg gtggaaatacc atgatgggg ataaggcatt
86881 ctgtgagttc atgaatggta gtcttggcag agcattgtgt tcagtttagg caaaccata
86941 tccagagtaa gtgtctgtt cagtggggac aaacctctgc cctttcagg atgaaagagg
87001 tccagtataa ccaaccttcc accaggttaac agactgtca ccccgagaa tgggccata
87061 ttgagggctc agtggtagtc tctgcgtctg tcaaattggg cactcagctg tagccatagc
87121 caggccagg ttggtagtg gaaatccatg ttgctgagcc catgtataac ctccatccct
87181 gccaccatgg ccactttgtt tatgggccc ttgggtgata acaggggtgg ctggggaaag
87241 aggctgagtg atgtccacag aacaggtcat cttatccact tgattattaa aatccctc
87301 tgctgagatc accatttgtt gagcactcac atggatcca aatatctca caggtttgg
87361 ccaactcagag aggtccatcc acataccct tccccaaatt tctttgtcac caatttcca
87421 atcatgcttc ttccaagtcc ctgaccatcc agccaaacca ttggctacag cccatgaatc
87481 aataataat cgacatctg gccatttata cttccatgaa aagtgcacaa ccaggtgcac
87541 tgctgaagt tctgcccact gggaaagattt cccttcacca ctgccttcata gtagtgcct
87601 agaaaaggggc tgtagtgctg cagctgtcca ctttgggtg gtgcctgcata atcgtgcaga
87661 accatctgt aaccaggccc tagtcttctc ttccctgtc aactgtatcat agagaactcc
87721 ccatgaggcc atcgggtcag gctggggaaag agaagggtgg gtggcagggtg tggagaccat
87781 gggcattga gctacttccct tggtaactt acttgcctt ttaggacactg ctgcagccca
87841 atcacatata tatcactcc atttgatgt ggaatgcgtc tggcatgac ccattttatg
87901 gctacatggg tcagaaagca cccagttcat gatagacat tcaatcaca tggacttg
87961 atgacccata atcaaatgtt cagttccac caaagctcat taacaggcca agagctgtct
88021 ttcaaaaagca cagtagttat atgcagaaaa tggcaggccc ttgtttcaaa atttttagagg
88081 catctgctgt gattcacatg tggggccctg ccaaaggctc caaacagcat ccctatctgc
88141 cactgatgcc tcaagcacca ttggatctgc tgagtcatat ggccaaaca gcagagcagg
88201 ttggacagca gcctggaccc gaggcagagc cttatccctgt tctggacccc actcaaaaact
88261 ggcagccctt tgagtcactc gataaaatggg cctgagtaac acacccaaat gagaaagtg
88321 ttacccctaa aatccaagta ggcccaactac atattgtgcc tttttcttag ttgttaggagg
88381 ggccaaatgc agcaacttat ccttcacatc acaaggagta tcttgacagg ccccacacca
88441 gtggaccctt agaaaatgtt ctgaggtaga aggtccctga attttagtca aatttatttc
88501 tcattccctg gcacacaaac atctcacaaa taatgtccatg tgggttgcata cttcttgctc
88561 actggatccg atcagcataa tgtcatcaat gtaatggacc agtgtgatata tttgcagaag
88621 caaaaatgtt tcaagatctc tccaaataag attatgtgc aaagccagag ttatataact
88681 cttgaggtat gagagtaaag atatattgtc agtcttgcca gctgaaggca aattgtttct
88741 agtggccctt atgaatagga atggagaaaa aggcatgtc caagtcaatg gctgcataacc
88801 aggttaccagg aaatgtgtt atttgcataa gcaatgaaac cgtatctgtt acagcagctg
88861 caattggagt caccacttag ttaagcttata gataatccac tgcatttcata caagatccat
88921 ctgtcttatg cacatgccaa atggagagtt tgaatggggg tggatgaaa atcaccaccc
88981 ttgcgcctt caagtcctt atcatggcac taatctgtc aatccctcca gggatgtgt
89041 attgtttttt atttaccatt tttcttagtta gaggcagctc taatgccttc catttggcc

FIGURE 2 (cont.'d)

89101 ttccccacat aataggcctc accctaccag tcagggagcc aatgtgggtg ttcttccag
89161 tgctaagtat gtctatgcc attatgcatt ctggactgg gaaatgaac acaggatgag
89221 cctggggacc cattggaccc actgtaagtc agacctgagc taaaactcca ttaattacct
89281 cacctccata agctcctgct ttaactggag gaccacaatg acgttttag tcccttagaa
89341 ttaacgtcag ctcagagcta gtgtcctgta atcccccaa tgactgataa ttccccttc
89401 cccaatgcac agttaccttg ataaaaggct ggaggctcgg ttggaaaaaa atggagaaa
89461 gattaacagc ataaatttgtt ggtagtgtag tggctcctt ccttaatggg acccaacttc
89521 cccttatttc aagggttct gtgtctgtaa actggctcaa gtcaaaaatt gattgagggg
89581 ccatgattct ctatTTTt aattcaaaatg agtgtttgt ccatttgacc tggaaatgttt
89641 ctgcttatat aaattaagta ggaaagaagt aggcatccta acaatttcac ttctggaaac
89701 actgtgatta attagcgaat gccagaactc tacatgagtc agactattct gattgctgct
89761 ttgccactac tgtctgttat ggtagttatg cccaccttgc ctttbatgg tgagtccac
89821 cactggcct ctgccacctt gggatccaat tattccatt gtatttacct ttattagtt
89881 agtgaactgtg gttctcacca ttggatctga tatgcagaga attacggggc tcttcaaaga
89941 tgcaggtgct accctcacag atctatttt caaggtattt gtcagggtt tatctctgg
90001 gcccttccat ctgggatgag taggtctaaa gtactaatac cactccacca tctcaatctc
90061 tctaaggcct tggatccctt cctctacatt aaaccaagag tgatcagaca ttccagctc
90121 cctcacagtg gccatcttc aatccatatt tcagctact aagcaataa attattagaa
90181 cctttttta actccctgag ctgcaatatt aaatgcagag tctctactta gtggggccaa
90241 atcaacaaat tcagcctgat ccaactctat gttccttca ccattatccc acacccttaa
90301 tatccattct catgcctgtt ctccagattt ctgttataat aaattagaaa actcaagtag
90361 ttcttttcaa gtatagtgaa ctcctctatg gtttcaact tcaacctcac ctctggggc
90421 ccataaggac tttagtctgg ttataggtct agaagcagac aggggtgtt ggggtggctc
90481 ctgaggagaa tcaacattat tttgccttgc aactgctca gggggccat cactgttgc
90541 ttaggcagca cagttttat ctccccagac aaatatggaa aggctgatgg cagcatggg
90601 cagggagagg atgtcaccac tactgggat gggaaagctg tttttttctt gcaaaaaaaag
90661 gtttctgag actttacaaa ctcaagtgtcc ccagcttcat cagggctc ccacatgtcc
90721 ccttccaag ttgcagggc ccattttt ccaaacgatg ccctcaactt aatagtacat
90781 acctggtag gctgtcatg cacccttcat tggaaagtcg ccacttgcac aataagagct
90841 catatccatt ttcccacaat ttcaagtctt tctctgcagg agataatact ttcaactcagg
90901 gcaatcttag cagatttgag gctcaagtatc tgcttctgaa gccaggagtt agaattccct
90961 agttcattt ctccatcac ttgtccatt gaacttagga gaaaccacca aacttcatt
91021 tggccaca tatggtaaa ggtattattt atagagtac taaactcctt gcctctatg
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91141 aaaggaacac tgaatcgtg ttctccatac tattcagaatg agagtctta gcattttga
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91261 taatgttctg ttcccttaga accactctg gtacaaaaat ctgtgttagg gttctctaga
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91381 atgatcacaa ggtcccaaa taggatatct gcaagctgag gaacaaggag agccagtc
91441 agtcctaaac tgaagaactt cgagtctgat gttcaaggc agggagcatc cagtagcc
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91561 tcatattctt gtcactgg cagctgatta gatgggtccc acccaggta agcgtgggtc
91621 tgccttccc agccactga ctcaaatgtt aatctccctt gcaacaccc tcacagacac
91681 acctaggatc aatactttgc atccttcaat ccaatcaagt tgacactcat tattaaaccat
91741 cacagaagca ttatctacta ataccaccaat ataaaagatg cggatgttag catagttatc
91801 acactgttc ctcacacaat ccactacca tggcttggtt tctatggaca tattattgg
91861 tctgagccag cttattataa tggtttaaat aatattcaag aattgttaca attgcatttt
91921 gaattgttat tattaaataa taggtcaatt tctaaataga ttctgtcca tagtcagatt
91981 ttacatcatg atttcctcattt ccatgacatt taaaagttt tttgttaat ttagccaaata
92041 tatacaagtc tgcattttgg gatggtaat tgaatgccat ttttaatttt tggtaatgg
92101 agacttttt tatgttgctt ttatattgtt ccataacta ggctatgttag tacatttctg
92161 ggtcaaatct ctattgctt aaaacttgc ggtttgcattt cattatctcc tagtatctac
92221 agttactgaa gtgatacgtt caaccagctt tggacatgat gaatgtttt ggcataagac
92281 ttgggtgttc tttggctttt ggaagtttca ttaatactc tctttaaatt tgcatttt
92341 cacttcttgg ttcccttttc aggaacacca agtattcaca cagtggatag tcatctgtcc

FIGURE 2 (cont.'d)

DRAFT

92401 tctacttcta aaattttgtt atttaacaaa atgttataaa agtagaatca catttatgta
92461 acctttttgg attgatgttt ttgcctcagc ataatttcct ggcaatccat ccaagttgtt
92521 gcatgcatca atcatccatt cctttacatt gctaagttagt attccatgtct atgtatTTAC
92581 aacagtttg ttaccatTC acctgttGAA aaacatCTG gctgaatcta gttcttagct
92641 attaatatta taaacaaAGA tgctataaac atttGTTGA cagTTTTG tGtGAAGTtt
92701 ttatTTTCT gggataaaATG cctGGGAGTG caattGCTGG GtCATATGAT AGTTGTGTTG
92761 ttttCTTGA gaaACTCCC AAATTCCCAG GAGTGGATGA AGTATTTAT GTTCTATCA
92821 gtaatgtatC agtgatCCGG TTTCTACACA TCCTTACAG CATTGTTGG TGTCTGATT
92881 ttaatTTTA gccatCTGA tagatGAGTA GTGATAGCTT ATTGTTGTT CAATTGCT
92941 ttccCTAAAG CCTAATAATT TTGAACATCT TTTCTATGTA TTATTTGCTG TCCATGAAAT
93001 atctgtggaa acagtggatG gaaggatGTTG TCCACAGTC TGAGAAGGAC AGCTGGGAGA
93061 ggtggatgaa gagaggttgg tatatGGGTA caaaaataca attaAGACCT CTGGTCCATG
93121 ctgggcacAG tggctcatGC CTGCAATCCC AGCACTTGG GAGGCCAAAG CGGGTGGATC
93181 acctgaggTC aggAGCTTA GACCAGCTG GCCAACATGG TGAACCTCTG TCTCTACTGA
93241 acatACAAAGG ATTAGCCGGG CATGGTGGTG CGTGCCTGTA ATCCCAGCTA CTCAGGAGGC
93301 tgaggtggGA gaatCACTTA AACCCGGGAG GCAGAGTTG CAGTAAGCCG AGGTACACCC
93361 actgcactCC AGCCTGGCA ACAGAGCACT CCAGCGGGG GAAACAGAGCA AGACTCTGTC
93421 tcaaaaaaaAT AAAATAAAAT AAAGTAAAC AAAATAAAAGA GTTCAATCC AGCAGAGAGT
93481 gtggTgAgAT ggtggggAC CAGCTCCCTG GGACTTCTGA GCCTTGGCC TGGCCAGTGG
93541 gggagCTGAG ccaggatAGG CTGAGCTC TGCCCCGTGA CACCAAGGACC CTTGTGGTGG
93601 ctgccaccAG gaccTTGGG GTGGGTGCCT GGGCCTGAA GATGCAGCAA GCCTCCCTC
93661 cccttacACC tcAGTGACTG AGGGTGGTGG TGGCCTTCC CAGGCCGAC CCTGCCGGGT
93721 atAGACGAAG TCCCACtGA GCCTGGATGC AGTGCCTTG GTGGTGGTG GGAGTGGCAG
93781 gggcagCTTGTG ACTGACTATCC GGGTGTGAGG ATTGGGAAGG TGCTCTTGGG ATGCAGGACA
93841 cgggctcAGC cacCTCTTA GGCATGGCG CTGCCAGATC CGGGTCTGG TGACCACTCT
93901 gtcccAGCTG ggtggAGACTT ACCTAGTCCt GAGGACAACA GACAATGGCC TTAATAGGCC
93961 tggaaGGTGA GTGGAGGAC AGAGGAGGAC AGTGTGGAAC AGTTAGCAGG CATTGGGCTG
94021 ttggTCTTC ttCTACCA GAAGATTTAC CCTGGAAGGA CCTCACATT GCCTATGGG AATGCCGC
94081 cacacttGG GAAGATTTAC TATCTGCTC TAGAAGGCTG TGTGTATATT ATGAAAAAGC
94141 tattCTCAAC tcACCCCCAA CCTTTAATA GATAACATCT GTGGGGAGGC TGACAAGATG
94201 gctgaatAGA AACAGCTAG GTGTGCACT GAGCTGGATGA TCAATGCAAGA AGGTGGGTGA
94261 ttTCTGCATT TCCAACTGAG GTACCCGGCT CATCTCATT GGACTGGTTA GACAGTGGGT
94321 gcAGCCCAtG GAGGGTGAAC TGAGGCAGGG TGGGGTGTG CTCACCTGG GAAGTGCAAG
94381 gggTCAGAAA ACTCCCCGTG TAGCCAAGGG AAGCTGTAAG GAGCTGTGCC ATGAGGAGTG
94441 gTGCATTCCA GCCAGATAc TATGTTTC CCATGGTCT TGCAACCCAC AGACCAGGAG
94501 attCCCTCCA GTGCTTATGC CACCAGGGTC TTGGTTCA AGCACAAAC TGGGTGGCCA
94561 ttgggtAGA caccaAGGTA GCTGCAGGAG TCTTTTCA TACCCAGGG ATGCCCTGGAA
94621 tGTCAGCGAG ACAGAACCAT TCACTCCCCt GGAAAGGGGG CCGAAGCCAG GGAACCAGGT
94681 ggtctAGCTC AGTGGATCCC ACCCCCATGG AGCCAGCAA GCTAAGATCC ACTGGCTTGA
94741 aattCTTGTc GCCAGCACAG TAGTCTGAAG TTGACCTGGG ATGCTGGAGC TTGGTATGGG
94801 gaggGGCGTC TGCCATTACT GAGGCTTGAAG TAGGCAGTGT TCTCTCACA GTGTAACAA
94861 aactGCAAGG AAGTCCAAc TGGGTGGAAc ACACCAcAGC GCTGCCAGGc TGCTGTAGCA
94921 agactGCCTC TCTAGATTCC TCTGTCTGG GCAGGGCATC TCTGAAAAAA AGGCAGAAAGC
94981 CCCAGTCAGG GACTTATAGA TAAAACtCCc ATCTCTCTGG GACAGAGCAC CTGGGGGAAG
95041 gggcagCTGT GGGTGCAGCT TCAGCAGATT TAAACATCCC TGCCtGCCAG CTCTGAAGAG
95101 agcAGTGGAT CTCCCAcAGC AGTGTtGAG CAGACTGCCA CCTCAAGTGG GTCCCTGACC
95161 ccCTGGCCTC CTGACCGGGA GATAACCTCC AGAAGAAAGCC AACAGACACC TCACACAAAGA
95221 gagCTCCAGC TGGCATCTGG CAGGTGCCc TCTGGGACAA AGCTTCTAGA GGAAGGAACA
95281 ggcAGCAATC TTTGCTGTTC TGCAcCTCC ACTGGTATA CCCAGGCAAA CAAGGTCTGA
95341 agtagatGTC cAGCACACTC CAGCAGACCT GCAGCAGAGA GGCCTGACTG TTAGAAGAAA
95401 aactAACAAA CAGAAAGGAA TAGCATCAAC ATCAACAAAGG AGGACATCCA CTCAGAAACC
95461 ccatCCAAAG GTCAACCAAC TCAAACACAA AAGGTAGGTA AATCCATGAA GATGGGGAGA
95521 aaccAGCACA AAAAGGCTGA AAATTCCAAA ACCAGAAATG CCTCTTCTTC TCCAAACAAAT
95581 cacaACTTCT CACCATCAAG GGAACAAAAC TGGATGGAGA ATGAATTGTA TGAATTGGCA
95641 gaagttaggCT tcaaAGGTGG ATAATAACAA ACTCCTCTGA GCTAAAGGAG AATGTTCTAA

FIGURE 2 (cont.'d)

95701 cccaaacgcaa ggaagcaaag aaacttggaa aaagattaga tgaattgcta actagaataa
95761 cgagtttaga gaagaacata aatgacctga tggagctgaa aaacacagca caagaactta
95821 gtgaagcata cacacatatac aatagctgaa tcgatcaagt ggaagaaagg atatcagaga
95881 ttgaagatca acttgagaa accctataaag ccagaagaga cttagggcca atattcaaca
95941 ttcttaaaga aaagaatttt caatgctgaa ttcataatcc agccaaacta agcttcataa
96001 gtgaaggaga aataaaattc tttacagaca agcaaatgtg agacattttg tcgtcaccac
96061 gcctgcatta caagagctcc tgaagggagc aataagcatg gaaaggaaaa aatggtgcca
96121 gccactgcaa aaacatgccaa aatggtaaag accatcaacg ctatgaagaa actgcatcaa
96181 gtaatggca aaataaccag cttagcatcat aatgatagga tcaaatttac acataacata
96241 ttaaccttaa atgtaaatgg gctaaatgcc ccaattaaaa gacacagact ggcaacatgg
96301 ataaagagtc aagacccatc agtgtgcagt attcaggaga cccatctcac atgcaaaaac
96361 acacataggc ccaaataaaa gggatggagg aatatttacc aagcaaatgg aaagcaaaaa
96421 acaaacaacaa acacaacaa acaaacaac aggggttgca atcatagtc ctgataaaaac
96481 agactttaaa ccaacaaga tcaaaagaga aaaagaaagc cattacatag tggctaagaa
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96601 gtcttaaac acctacaagg agacttagac tcccacacaa taatagtggg agattttat
96661 accccactgt caatatcaga caggtcaatg agacagaaaa ttaacaagga tatcttagaa
96721 ttgaacttag ctcagacta agcagaccc atagacatct atagaactct ccaccccaaa
96781 tcaacagaat atacattttt ctcagcacca catgcactt attctaaaat tgaccacata
96841 attggaaagta aaacactctt cagcaaatgc agaagaatgg aaatcataac aaacagtctc
96901 tcacaccaca ggcacattaa attagaattt agaattaga aactcactca aaacctcaca
96961 ctatcatgga aactgaacaa cctgctcctg aatgactgt ggataaataa tgaatgaag
97021 aaggataaaaat atgttggggaa aaaacaataa gaataatgtt ccagaaactc tggacatatt
97081 ttaaagcagt gtgttaggaa aaattttatag cagtaattgc ctacaaaaga acacaggaaa
97141 gatctaaaat cgacaccctt acatcacaat taaaagaact agagaagcaa gagcaaccaa
97201 attcaaaaagg tagcagaaaaa caagagataa ctaagatcg ggcagaactg aaagagatag
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97321 tccgtctccc ttcgggtctc cctctccccca cgggtctccct ctccctctct ttccacggc
97381 tccctctgtat gcccggcga agctggactg tactgctgcc atctcggtc actgcaacct
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97561 agccccccgc cccggcagcc gccccatccg ggaggtgagg ggtgcctctg cccggccgc
97621 cctactggga agtggggagc ccctctgccc agccaccacc cggctctggg ggtgtaccca
97681 acagctcatt gagaaggggc catgtgaca atggcggtt tggaaatag aaagggggga
97741 aagggtggggaa aaagattgag aaatcgatg gttccgtgt ctgtgttagaa agaagtagac
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98101 gaccctccct ccattattgt cctatgaccc tgccaaatcc ccctctgcga gaaacaccca
98161 agaatgatca ataaaaaaat aaataaataa aaataaaaat aaaataaaaat aaaataaaaa
98221 aaaaataaaa cacaataaa atgttaaaaat tccattcta cataaaatca tctatagatg
98281 ttttaataata tacaacatga ttatcaagga cttaatctgt accacatttct tttatctgt
98341 aagttaaaat tcttgtacc atcactctca accctaccct atcttccacg ataaatgaga
98401 ctttcacatg ttttccttgc cccagatggc gacactaact gtaggctttt gaaatgtctt
98461 aaaaaaaaaa aaaaaaaaaa gagagccagg catctcaaa cagagaaaaag ctgtttgaac
98521 acatttatct aagtctatca aagctatga ttgttagcaa gaggtaccc ttgtatgc
98581 aggcagaaaaa ctgccaccaa accacaaaaa gcttgcaccc ctgctgaacc taaaattaaa
98641 caatttatct ctcattaaaaa aaaaaaaaaatc aattaatccca ggagctgggtt ttttttaaaa
98701 gatcaacaaa atagatagac cactagccag actaataaag aggaaaaagag agaagagtca
98761 aatagacata ataaaaaaatg ataaaggaga tatcaccact gatcccacag aaatacaacc
98821 taccatcaga gaatattata aacacctcta tgcaataaaa ccagaaaaatc tagaagaaaat
98881 ggataaaatttgc ctggacacat acaccctccc aagactaaac caggaagaag tcaaattcc
98941 gaataagcca ataacaaact ctgaaatttgc ggtgttaatt aatagcctac caaccaaaaa

FIGURE 2 (cont.'d)

FIGURE 2 (cont.'d)

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102301 ttgagataca tcccatcaat acctaattta tttagagttt tcagcatgaa tggttgtga
102361 attttgtcaa aggctttc tgcatctatt gagataatca tgtgttttt gtcattgggt
102421 ctgtttatat gctagattac atttattgtat ttgcgtatgt tgaaccagcc ttccatccca
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103261 ctgcaatgtt gcgttggaa tccactt ggcacacata tcatcaagc gttggctca
103321 gctaggctgt tcccccaacc caaggacccc atgagggaaag gagtggggg tccaccccca
103381 gcaccagcca ctggggggc tgcccaggtt ccctcagtt tcgtaaactt acgttttgg
103441 gtaattcaga acaaagtcca ctcttttcc actatcaaacc tggatatacc gggtaaatc
103501 cttgtggcat ttgcacatca tgctcaaggga gaagccaggg ttccactcca tccatctgag
103561 catgagaaaag gagaagaaaat tgattnaat gccaggctt ggtctgggg ctcagctgag
103621 ggcgcggccac actgtcagac gatgttacac agggagattt atgtactaa aataaagtca
103681 acacatcata ggcttccactt gtgtccagta aggttctggg accttccca aagtccagtc
103741 gcaccaactt tgctgtgccc tgagcatcag agtgggaaacc ctgagactgg gcttataatg
103801 gtacagggtgt gcaccaacttgc ataaaaatgt cttaggttag tctaggaga cctcacttac
103861 tagaggtgac attgaacatgtt agggccctgc ctggccagtc actggaggtt gaaggtattt
103921 aggctgccccca gccacgccccca acctggacat ccacatttctt gccaacttga tcaatgtgt
103981 ccctggactt ctgcacatgtc ctgcacatgtt cattgggggaaatggacag ttcttctgccc
104041 ttcacaatag gacgacacgg cagcagggtgg cttggggagag ggaccaggc acagatggct
104101 aaaaggcttc cctctctcac ctgctggcca atagcagctt tagagattt tacaatcaaa
104161 acagctttcc caaagacaag ccacggactt catccagttaa acatgctcag atccctgacat
104221 cttgtaaacg tatcccgtgg cattgggcat ttgtttttt gaaaaatgtt tattttgtttt
104281 tttgtttac ttattgtat aactttaattt gtggaaatgtt cagaggttt tgaaccacag
104341 caactccatc ttgaataggg gctgggtaaa ataaggctga gacctactgg gcacgattcc
104401 caggaggatc ggcattctaa gtcacaggat gagacaggac attgtatcaa gatacagggc
104461 agaaagacatc tgctgataaa atgggttgg tggaaagaaac cggccaaaac ccaacaaaac
104521 taagatgggt atgaaaatgtt cctctgttca tcctcaccac tcattatatg ctaattataa
104581 tgcattagca tgctaaaaga aactcccacc agtgcacatca cagttacaa atgcccatagt
104641 aatgtcagga agtaccctt tatggctttaaaa aaaaaggagg aaccttcagt tcctggattt
104701 gcccaccctt ctctggaaa actcatgaaat aatccactca ttgttagca catgatcacg
104761 aagtgcactgt aagtatgtc agtgcaggatg cccatgcata tcgccttgcct atggagtagc
104821 ctttctttat tgctttactt tcctaataaa ctggctttca ctttatggat tcaccctgaa
104881 ttctttctgt tggagggttca agaactctt ctgggggtctt ggtcaggac cccttctgg
104941 taacaaaaaac aaaatgaaat cctgttagtt tctttggggg gggagaatga ttttgtgtttt
105001 gtttaaaaac cagattttac attttagggg tttagctttt tcatttatat tcctaattct
105061 ctttctttttaaaaattttctt ttttaggggaa aagttaaaata tcgagatttt ggtctttaaa
105121 aaagtccatc gttattttaa tatgtatctt tgctttactt ttcccaat cccaactgtc
105181 acagtgcctt ctggggccatc tagcctctcc ttaggatcac aagaagtga cagggaccgg
105241 gtatgatccct tctgcacatca aaggcattttt gtcaagttt ttctgtttagtgcgcaccc
105301 catttctcac tgggggtttt ttttagaaat tctacgttcc cagattttaa gaaaaccc
105361 cattttgtt gttgtttaa atgcaatgtt tagtataat acaaggataa aaatgtggac
105421 aagtctacac atttttgtt tgggggtttt gggaaatgtc tcaaggatc tcaatataat
105481 atctaaaattt gggccattca gtagcctcac tggtagtaat gatcaattaa ttagtataat
105541 ttagtcatat caatttaat attactgtatc attttctttt tgcctggaca gttcaaggc

```

FIGURE 2 (cont. 'd)

tctagttaat tttaaaagct cagtggagct agatgtttt cagtagtcaa acaatgagcc
105661 atgcaggggc atctgtgcca gcaaattggca ttaatgtttt cttaaagtga tagtccactt
105721 ggacggatgt ggaatacttc tttagccccat gcccggcc
105781 ggtctatgga gggggcagc accaattggc agaaatgcc
105841 gatggccctca cagcacatgg agacaggaca gcttgcttgc tagttacta ctgccccct
105901 gaaaccaaat gtttatgtcc cttccactgc aggtcaactgc tgcttaagag accctgacag
105961 gctgacctgc acaggagccg aaggccgtca tgccacaga cattaactgg tggagatgga
106021 atcccactcc attgaggaag accaagtggc acaccaggc agaaggaaaca aagaagtaga
106081 aaggcattta atttattgga aaaaaaatga gagagagaga gaaagagaga gagagaaaagc
106141 aagagagaca gagagacaga gagagagaga gagagaaaaga gagagagaga aagcaagaga
106201 gacagagaga cagagagaga gagagagaga gagagacaga cagacagaga gatcctaagg
106261 ggatgcagtt agtataattt gagtgtaaaa agactttctg taaccacaaa catgatttct
106321 gaatgaagac ttcaatagag aaacagacaa agagaataat cactgtgaga tgtttggct
106381 cttgtattaa aagaaaagct ttagacaat taaatttagc agttaattt agcaaaagaaac
106441 aattcaagaa tagggcagcc cctaaaccag agcaggctcc gagtgacttt gatgctgtct
106501 catagttgg taggatttat gggcagaaaa aggaacgtga tgtacagaaa atggaagtga
106561 ggtacagaaa cagccagatt ggtgatggct cagcatttgc cttacttgag cccagtttga
106621 acagctggcc actgtgagtg gctgaagtct gggcgctgtg attggctgag acttggttac
106681 ttgctatgag agtaggtgac agtctgtta cacatccagt tagttacag ttcaactatgt
106741 acagagaaac ttttaggctg aattttaaaat atgtaaggag aaaagttaa gctaaactca
106801 ttaacaccta gaagagagaa ggtgttcatt cgacaactaa ttatggagca cctactatgt
106861 gccaggaagt gcttgtgca aaatagaaga acatgttaacc caaatacagg gtgaaactac
106921 aaagaaatgg aagccataaaa taaaactatg agagacataaa accaaaaata aaattctaag
106981 cccctgaact gactgtatgga ccctccctt gggcaaggcc attccaaagt taacctgaaa
107041 aatttagttca ggcattgtata ggaatgggtg gctaaacgtg cctcattgtc ctctccct
107101 cttggaattt aggccacaact gatcagcatt cacatcaaca cagagatgtt aagccattt
107161 gaacagactc tttaagattt ataagaaaaca ttacaattt attctacctg aagcctgcta
107221 cctggaggct tcatctgtcat gataaaaaac ttgtttcca caaccctta tcttaaccta
107281 gacattccaa gtttttagat aataatttctt ttaagcagtt gccaatcaga aactcttga
107341 atctgcctat gacctggaaat ctccccccc ccaagttgtc ccaccttcc aaaaccaaac
107401 cactgtccat ttacatgtt ttgactgtatg tctttagtct ccctaaaatg cacaaggca
107461 agctgtaccc caaccacatt gggtgcatttgc ttcaggatc ttctgggct gcatcatggg
107521 ccactggtca ctcatatttg gctcagaata agtctttca aatatttcac agagtgtgac
107581 tcttttctt aacagacatg aaagccagat acagatgtaa tatgcaagga gtaaaagctc
107641 caaaaggaga gagagtaata tatggagaag tggaaaaat caaagaaata aaagaagaac
107701 tccttaagc tgaaaaatac ttcaatatct taagtctgtg aaagggaaatt aaattttagg
107761 accccaaact catttagcca aagggaaatg tcaagctggg aactgtgtca tgcaaacctg
107821 cctcccccctt ttgggtccta aataagatgg ctatgtatgaa aagctacatg tctccaccat
107881 atttgtctca caaggaaattt cctagtgaaac cgtttaaatt tcaccatggc aatgcaaaatt
107941 gatagcttat ctttacaatg gcagtccccc accagataca aatgcataatc tgattgtcc
108001 cctgccttac tttatctatg ttctctttag taaaatgcag actccctgca ttttcctct
108061 gcctcatttgc tttatgtcat cttatgttaa aaaaatgca gattcactga gccagagaaa
108121 ggcattgtata actattttc cctgcctgc tcttacatga aaatttgta cttctcaata
108181 tcccgccctt ttccctttaa atttggagcc ctcaaaaatca ccttcagaga aaggcatagt
108241 gctgtctccc gggcatgcgt ccttaactt cggcaataaa tttcctaaaa tgattgagac
108301 ttgtctcgtc attttctca atgacaagtc cttaggtgggg gggaaaaaaa aaaaggaaaa
108361 agatacacct aggtatatac tgaatacatt taaaatgtc caagagacag gagaacacaga
108421 gacagagaga aggaaagaga tgcagagatg gaacgagaga ggaagaaaagt gggggaggaa
108481 gggagataga aactcttaggaa aagaaaacaa actatcatta gatttctcct ctgtcattt
108541 gaaaatggga agactgaagt gtatacacac tttttttaga tcgtcatcta agcctctcat
108601 attgtcatca atgagggcag gggaaatttgc ttgagggggat gggtaggggg acaggacgac
108661 aagcacagac tcatgtatctt cactacacat ggaccttctg agggaaattaa ttgaacaatgt
108721 tcagctgaac aaaaattttaaat ttagaatgaa tcaataaaact cctaaataca gcaaaagaaata
108781 tgcattataa aactacagca aatataatag taaaacaaaaga aacaaaaataa tgagggat
108841 gttcatcactt actaccacta cttgtttgg gaattccaga catgaaataa gaaaagaata

FIGURE 2 (cont.'d)

108901 tcagtgggt agataatgga aagtaagaga caaaatttta aacatttaga taatatgagc
108961 acattaacta accagactca ctaacaacaa acaaacaaaa acaagtgatt agaaccatg
109021 aaagaattca gtaagggacc aacacacagt aaatgtaaaa aacaagtaat ttacatttat
109081 cccagcaata ttttgcaaa cagaaaaata tcctactca aacagcaat gctaaatgt
109141 gagtagctag aaaggtaag gacctgcatt aagaaaacta gaaattctat ggaagtagct
109201 tgacacagga tctagagagg tggaaagaca cgctgtttc ctggatggaa agactgaatc
109261 tcagtaaat gccaacat aacacagtt tggaaatccaa aaagtaattc tcattatgaa
109321 aaacttaaga aagaacatgt agatatgtaa cagacattaa catttattag aaagttatgaa
109381 taacccaaag ctggctgg ggtctcgat agaaaaataag gctaacacat aaagtgcga
109441 aacagaccca gagactatgt atacataata caaaactcgc caacacttat ccagtgcctt
109501 ctatgtgcct actactattc tctgtgtttt catggtttaa cctattatct caaaccccta
109561 aaaggaaggc actgttattt ccctcatattt acagatgagg gaagtgggc acagacatg
109621 taacacaact tcacaggact ggagaaatg ccagaatgt tgagttggc ccagacactc
109681 gaatccagag ctcatgactg ccatcctatg ccagctgtt cctgtggat catcatccct
109741 gtcatccaag tcaggaggaa agacatcatc cctgtcatcc aagtcaggaa cgaatgctac
109801 cgggagagg ccacccaggat atgtatgaaa acacgtggca ggagtgggc atggatggc
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109921 gtttggggca gcagtgaacc atgatcatgc cactgcactc cagccttaga aacagagcaa
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110041 aattataaaa gtatttagaca aaattacggg ggaagtattt gtgtAACACT gggatggaaa
110101 gggtttctt aagccaaagga ggaaacccaa aagttataga tgtaaacaat acatagttaa
110161 taaaataaaag aactaaaatc tcctgtggca aaagcaacag aagacaaaata ataaatgcta
110221 tacatatgtt acaaacggat actatccttga tatagaaaga gctcccttag attaataatt
110281 gaaagaacaa tagggaaaaa aagttataaa ataggcaatg cagtgtatc tattatgtt
110341 caggggagtg cagactaaaaa caaccacaaag gtcttaggg ttttagact gtcaaacaag
110401 gtcatcggtt actgacaaat gtatggatgg gcaaaagtat ctttcatac acagctggta
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110521 aaaatgttca ttgttccat caatctgtt tctggaaatg gatctgccc taattaaagc
110581 accagtacat caagatgttt gtacaagggt ggttctggca gcattgttt tactgcaata
110641 cccaaaacaa acaaacacat ctacaaatgg gaaatgaact gaacgtcagt gaatagggaa
110701 atggctaagt aaattatgtt gcattcccg aaggcaagaa atagtagcag ttaagaaagg
110761 ggaaaatata tgagatacta tttcacacgc aagaatgaaa acatctgaag atgcgaatg
110821 ttgatgtgc agggaaacag tgaatctcgaa aacagttac tgggtgtct actggcagaa
110881 tgccttggaa aaacaatcg caaatcttag aagcttaaa aacacgttgt ctgcaaccct
110941 gcaactctac ttcttggaaat attccctaca gtaactcttc catgagagca cagagagatg
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111061 cccatcagca ggagagcggc cgagcgtat ggttattcag atactgtat gccatgaaga
111121 agttaactgc atgaaccaca tctatctgtc tcaaccatg cctcttaat acttagtcat
111181 gagtgaaaag tgcaggtcac ataatgatta gattaaatta tatcgattaa caaacaccta
111241 cactttgcca tttactgtcg tggatgttgc tgcattgttac acagacatgt gtggcac
111301 tgggagagca caagctgtgg gctatgaccc ggttctgtt ctccttctcc ctgcgtggct
111361 gagtgagtaa ggagggctg caagaagcgc cagcttctg acatagtgt gactattctt
111421 agtcattgtt ttacttccaa actctgtatc ggaagcctga gaaatcttct gagaagagg
111481 aactccaaga ttgtcagac agtcaatgtt tcagtttgc ctgaacggaa gcaaaggagg
111541 gtttctgaaa aggacagatg agtggaaagga ggaagaaaaa aatgattaaa tctaagaaa
111601 gggaaacga tctcaccaga agccccctgc tgcaagatg tgataatgtt aagtagctcc
111661 cagataatgtt ggctgtttt tggttatctt gatgagtaga tagcaagtc taatttagagc
111721 cccactaatt catactaaag tggatgttgc ttataacaaa ttaatgaaat tttatgggca
111781 ttttatcttta acccagattc acaggccaga agtgcgttga gaactggctg cagggctt
111841 gccataggtt tctgaaacag ggagggaaacg caaggaagaa gcatagaaac aacagccctt
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111961 aacacatcat atgggcctt agtggagagg cttgtgcaca aatactctaa aacaaatcac
112021 acatttataa acccttaaca tgacccacag cacagcaggat tactctccca cacttgcatt
112081 taatggcatg taagttttt tttgatttt tcaattggaa aatagaatat ataaaatatg
112141 tatggatgtt tatatatgtca cacacacact cacacatgca gaaaaatgtt caaaaacacct

FIGURE 2 (cont.'d)

FIGURE 2 (cont.'d)

115501 taatggaaatt taggttggttt ctacttttg actattgtga acaatgggcataaaatatg
115561 tgtgtacaag ttttgtatag acatgtggtt tcaatattct tggtagagg cctaggagg
115621 gaattgtctgg gtcattttgt agctggggtt cagattttga ggaaccacta aactgtttc
115681 tgaagtggct gcatcatctt acattccggta agcagcatca gggttccagt ttctccacat
115741 ccttggcagc acttggtaact atctgtcttt tttattctaa ccatttttagt gtttagaatt
115801 gtatcttgg gtttgattt gaaatttcct gatgattaat aatgttgagc atatttcac
115861 gtgcattttt gagattcaca aattttctct ggagaactat ttaattaaat cctttgctaa
115921 tttttaaacg gggtttttg tacagaatat tttaaaattt agttgtcaga gttctttata
115981 tattctggat acaagtcct tatcagacat atgatttaga tattttctcc attctgtgga
116041 ttgtcttttc actttattga tgatgtcctt tgaagcatag atcttttaca ttttaatgac
116101 atctaacttgc tctactttct tttgctgcct gtgccttgg tgccatatct aagagacttt
116161 gccgaaccctt agattatgaa gacttacttgc tatgtttctt tccaagagtg ttatgttgg
116221 agcccttactt ttttagatcta tcattccattt tgaatttaat tttaattta tctagcagcg
116281 ttattgttaat ataatgcaca tactgtaaaa ttatccatt taaagtgttc aattcaagga
116341 tggtttagtat taatttttac acaatggaca accatcgtt tttagaatttttcttcatcccc
116401 gcaaaaaggaa cactgtatcc tttagtgcacttccatgatccacttccatccatccat
116461 cctaggcaac cagaatcttgc ttatccatttcttgcatttgcatttgcatttgcatttgcatt
116521 ataaaaggaa tcatacaata tatgtatctt tgtagctgg ttctttcaact tagcataatg
116581 tttttgagat tcattccatgt tgtaacaatgttgcatttgcatttgcatttgcatttgcatt
116641 attatataga tatactatatttttgcatttgcatttgcatttgcatttgcatttgcatttgcatt
116701 actttttgtat agttacaggt catgtgcata taatcatgcata ttttttttttttttttttttt
116761 catatgtttc catttctgtt gggaaatatgc ttaagagtgg aaatgtgtc atattgttac
116821 tctctgttgc acagtcagga gctagcagac tggttccaa gcagctgtc catttttacat
116881 tcccaccaggc agtgcatt
116941 tcggatt
117001 gcatttccta gatgactaat gggcccttgg agaaaatatcttattcatttttttttttttt
117061 ttttcattttt ttaattggac tatttgcattt tatttgcattt tatttgcattt tatttgcattt
117121 tggatggaaag gcccattatca gatatacaat ttgttaatatttttttttttttttttttt
117181 tcttttcaact ttctgtatgg ttt
117241 acttttatcac tttatctatt
117301 cttttgtcaa atccaaagtc atgaagggttttactctgtgttttttttttttttttttttt
117361 gtttttagctc ttacatt
117421 tggatggctaa ggatccaaact ttctctgttta aactgtcttgc ttttttttttttttttt
117481 tttttgtgaaa agactatt
117541 ttggccataa gtgtaaaggc ttatttttttttttttttttttttttttttttttttttttt
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117661 ttggatggctaa caagtcctcc atcttttttttttttttttttttttttttttttttttt
117721 gggcccttc catttccata tgaatttgca gaatttttttttttttttttttttttttttt
117781 aatcagcttag aatt
117841 ccatttttaac aaaattaatgttgcatttttttttttttttttttttttttttttttttt
117901 gatcttctttt aataatgtta aacaatgttttttttttttttttttttttttttttttt
117961 ttt
118021 cttaacttttta tttcacatag ttgggttgcatttttttttttttttttttttttttttt
118081 tcttgcatac ttgggtggttt attagttcttataatttttttttttttttttttttttt
118141 ttctatataat aagatcatgt tatttttttttttttttttttttttttttttttttttt
118201 gtgggtgcct ttacttatt
118261 tggatggatag aagtagccaa agtgcatttttttttttttttttttttttttttttt
118321 cattaagttat aatgttaact gtgaatttttttttttttttttttttttttttttt
118381 tgcttgcac catgtggag tgcaggcata tgcatttttttttttttttttttttttt
118441 tgggttcaag tgatt
118501 accacacaca gctacttt
118561 tggatggatag ctt
118621 cagggtgtgaa ccaccacaccc cagcctaattt gtgaatttttttttttttttt
118681 acatt
118741 aaatgccttt

FIGURE 2 (cont.'d)

118801 ctctattgtat atggtaatt caattaatttggat gttaaaccaa ctttgcattc
118861 ctgggctaaa tcccacatgt tcataattgtt taatgcctt tataacttc tgggttaggt
118921 ttgctagtat ttcggtaaaa atgttataat ctatattgct aaggatatt gttataagt
118981 ttcttggta tgocctttagt tttggtataa tatgggtatg agacaatgaa ttgggaagtg
119041 ttccctctat ttcttaaaag agttatgca agatcagtat taattctta aatgttgat
119101 agaattagcc agtgaagcta tctgggtctg ggcttctatt tgggaaat ttagaattaa
119161 gtaattcaat ctcttgggtt gtgattgttt tattcagatt aactattct tcatgagtca
119221 gtttggcag tttgcgtctt tctaggaatt tgccgatttc attaactag ttgttggca
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119401 tgctcatttt aatggttga atcctctggc cagttggctg aaggttgc aattttattg
119461 ctgatcatgt atcaactttta taattgaatt gttataagaa gacataagaa gtaagaggca
119521 acccctacaa tggagaacat taaggacac tcaagctttt ctgcccattc ttccatcatg
119581 ccaatatggt tgatccaaag ttatttcat tactctcc tccatctt gtctggaggt
119641 gtaggttaagg tgaagttgg ggattgtca cccacactgg gagctggc cttggtgact
119701 ttccagcagt qacaggccat acactgtgga aagggttat ttcataccat gctcttgaga
119761 tagaagaaaac catggccccg tggccactcg atctgtatgtc ataactcacc gatattgtt
119821 ttgccgtgtt tccagttctt tacgtcggtg ttgcttgaga atgtgaattt ggtcatctcg
119881 ggccaacttt gctgtaaaga aagaacaaca tgagaggagc ctgaggaaga acaataacaa
119941 tgcccaatgc caagtgtca ggctccctc agatgccctg cccatgccg gtcctttag
120001 tgcatgacct catttgagcc tcagagcact tcccccaatta atgatgaaga aactgagget
120061 taggaaagt gttagcttt gctcttgaac ttaccccaag gtcacacacc taatttagtga
120121 attttctttt tttttttta attctacttt aagttctagg atacatgtgc acaacgtgca
120181 ggtttgttac atatgtatac atgtgtcatg ttgggtgtct gcaccattt actcgtcatt
120241 tacatttagtt atatctctt atgctatccc tcccccttac ccccccacca tgacagac
120301 tgggtgtgt tggcccctt cctgtgtcca agtgttctca ttgttcaatt cccacctatg
120361 agtgagaaca tggtagtgg tttttttgt ctttgcataa gtttgcgtag aagggtgatt
120421 tccagcttca tccatgtccc tacaaggac atgaattcat cttttttat ggctgcataa
120481 tattccatgg tggatgttgc ccacatttc ttaattcagt atacatttgc tggacatttg
120541 ggttggttcc aagtctttgc tattgtgaat agtgctgca taaacatacg tggatgtg
120601 tctttatagc agcatgattt ataatcttt gggtatatac ccagtaatgg gatggctgg
120661 tcaaatggta tttctagttc tagatccctg aggaattgccc acagtgtctt ccacaaag
120721 tgaacttagtt tacagtccca ccaacagttt aaaaagtgttcc catttctcc acaccctct
120781 cagcacctgt tggccctgt ttttttaatg attgcccattt ttttttgc tggatgttgc
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121561 atgatgcctc cagcttgggtt ttttttgc ttttttgc ttttttgc ttttttgc
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121981 atccctgagac ttttgc ttttttgc ttttttgc ttttttgc ttttttgc ttttttgc
122041 gggtttctta aatatacaat catgtcatctt gggaaacaggg acaatttgac ttttttgc

FIGURE 2 (cont.'d)

122101 cctaattaaa taccctttat ttctttctcc tgccctgattt ccctggccag aacttccaac
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122221 aatgcttcca gttttgccc attcagatgt atattgggtt tgggtttgtc ataaataggg
122281 cttattattt tgagatacgt cccatcaata cctaatttat tgagagttt tagcatgaat
122341 gttgttcaa ttttgtcaa ggcctttct gcatctattt agataatcat gtggttttt
122401 tctttgggtc tggttatgt ctggattaca tttattgatt tggatgtt gaaccagctt
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122581 ctaaaattgt ttttttgcgt tggttatctg ccaggctttt gatcaggat gatgctggcc
122641 tcataaaaatg agttagggag gattccctct tttctattt attggaatag tttcagaagg
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122761 gaactttctt ggggtggtag gctgttaattt attgcctca tttcagagcc tggttatttgg
122821 ctattcaggg attcaacttc ttccctgggtt agtcttggga ggggtgtatgt gtcgaggaat
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125221 gacacactca tggctgtacg caccgggtttaa ttaggtttt gatgttggat ttgggttgg
125281 tggggggggc tgggggggggg gggcggggcg gggggagata ggacgtggaa gaggagagat
125341 ggcagagggg agatggcaga gggagagctt aatcttctctt attagtcttgc

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FIGURE 2 (cont.'d)

125401 ctagcagtct atcaaattttt ttgatccctt caaaaaatca gtcctggac tcattgttt
125461 tttgaaggga ttttgcgtc tctaccctct tcagttctgc tctgatctta attatttctt
125521 gccttctgtc agctttgaa tgtgtttgtc cttgcttctc tagttcttt aactgtgtg
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125701 cattgggttc aaagaaaatc ttatttctg ccttcatttc gttatgtacc cagtagtcat
125761 tcaggtgcag gttgttcgt gtcctatgt tagtgagaggt ttgagttgat ttcttaatct
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125881 tacatttgct aaggagtgtc ttacttccaa ctagtggtc aatttcagaa taggtgtgat
125941 gcagtgcgtga gaagaatgtc cattctgtt atttgggggtg gagagttctg tagatgtcta
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128581 ttacaaaag ccaaattccag ttctctatcc tcttgcggccat tcactcagca agccttgggg
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FIGURE 2 (cont.'d)

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128821 agctgccttt ttgtccagg agaaaaggcat ttctggccc ttgtgtggta tctttaaatc
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FIGURE 2 (cont. 'd)

132001 agcttctcta tgctcaccct ccaacctgtg ctgtccctga aagtgattgg aatgagatgc
132061 ctc当地gggt tttccactgg gaactctgac cagaaaggag ggaatgtgt aaggaaaggag
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133981 agcacttaaa aaaacagcag gt当地aagata ctctgc当地tcc cgtgctt cttagaagca
134041 ggagatgaaa gtccc当地tgc当地tcc aagatgtcc tcaactatacc aaaaggaaag taacactt
134101 ttcatcaagg ttgggaagtt gaagccaaag gaaatccata caaacagatc ttgtacaatg
134161 aacgcttacc tcccgagtc ct当地ccgtcc cagttaccc agcccttgg
134221 ccttatcaca tctc当地gtatc attcatccaa tgc当地atct aagggggatt gactctaact
134281 gcttcttggg gt当地tcatct ttttaagagg gctccc当地tgc cacgtacaac ttgtattaaa
134341 gaaatctgta ggcttgc当地 catgaatctg tcttgc当地ccg attctc
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134461 ccttaaatga actcctgaat tc当地taccc aagacattca ct当地aggcc
134521 aggctc当地tgc当地tcc tcaacccatgg ggc当地ggaa agaaatggac
134581 gaggagagag aatccagtgaa gccaggatgg tgctgtgctc ctc当地agg
134641 gactgc当地tgc当地tcc agtgc当地tgc当地tcc
134701 aggctgtgcc cagtgagggt ggccagg
134761 ttacaactgg agatgggctt gctgacagtg
134821 gagttaccac cccttccaca gatgaagaca
134881 ttgc当地ggcag agtggagtc
134941 cagtttccag tggggataat
135001 catggattcg agtgc当地tgc当地tcc
135061 acagtgagac caagcagctc
135121 ccttgcaact agaaggcacc
135181 acaaggctgc ttggccccc
135241 ggcaacacagcc atagcttgc当地

FIGURE 2 (cont.'d)

135301 gttgggatga gaggctcagg cattgcatca cgccattctga tgaccacgcg gtttggaaag
135361 ccccgactc gatgccctcc aaggcatgtt cttttttatt tttagggtga gtctcaactgt
135421 gttgctcagg ctggagtgcg gtggctcgat ctcggctcac tgcaacctcc acttccaggg
135481 ttcaagtgtat tctctcgctt cagtcctcca agtagctggg actacaggca cctgcccacca
135541 catctggta agttttgtat tttcagtaga gacagggtt caccatgttg gccaggctgg
135601 tctcaaactc ctgaccccaa gtgatccacc tgccctcggtc tcccaaagtgt ctgggattac
135661 aggcatgagc cactgtgcct ggccccgtca aggcacttcc taagccagat tcatcaaccc
135721 ttgaacttta tccctggcg cagaacctag agttctcagc atgatggca agtggaaagg
135781 gcgagggta tcattcttgc tgcgagcgca ggcattccca ttccatgccc tgccctcaag
135841 ctgccaggag gacccttggc gggcttccca agaggaatgg gaacttgagt gttttccaca
135901 aacctcttgg ctctgaatac cgtgagcagt ttgggttggc tgacgctgag gccagacgt
135961 tgtgtcaga aagcggaaag ttccctccctg tgctctgttag tctaggccag agggccctagg
136021 aacagttct gatgacagag gagccaggcc catgtgggttg gatgacatgt ctgggttcca
136081 gccacatgtg gaccaggctc ggccccacga caatgcccct cctgcaggga gatgtatcagc
136141 ctcatctgcc acctctgaga aagccttccct gcacagactt gtcctcagga gaggcaggcc
136201 acacacaagg cctcgcccat catggacagg gtgggcagg tctgatggga caggagtc
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136441 ggcagtgagg ggtagaaggc tcgggtggcc ctgggttctg gagctctgaa ttacatccc
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136561 tcattctaccc aaaggagata cccctcaattt gcaggaccat tgagaaaatg aaatgacacc
136621 atccctgggtg gcctcccttc tccagaggca caggccaccg gttgtgtca tcagaaccac
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136741 tagcatgggc ccctgcgtca cggccacttc gtgactacat gtgccaatcc gagaacttgc
136801 agcacacatg ggaggaggaa actgaacctg tgacctcaaa ctccttcaact caaagccca
136861 aaggaactcc tgaaggctg gagacaggc tttgaggaca gagggagagt gggaggcatt
136921 ctgaatgtcg gtggggcagg cagacaatg ctgtgtgcgg tgaggactga gggcggcc
136981 ccagaggccc gggcttggc tgagtgtggc tgctgcaggga gaagtagctt tcctatggct
137041 ctgaggggct ggagagggag gaagggtgtcc ccaggggata gatgacagga aagctgggg
137101 ggggtgggag gagctaacag ggacactctc atgggggggaa ggctccagt accttggact
137161 aagaggggag ggagatgggc tgaggaggca ttccaggact gggcaggatc cacagggagg
137221 gcccgtatgtc tacctggggg tgacgaccac cacgaagaga ctgagcagct tctctgagg
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137341 tcctggcccc ctgccttacc tacacctgca ggcacctggg ggagagcccc tgagttcac
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137521 ctgggtgtgg cttaaggctt cttcaaggctt gaatatgata agaggtgaac aaggggcaga
137581 ctgacccaa ctcaaggagtt aaaagacaaa gttgtatggc tttgttctt acatcccagg
137641 ggccactaat ggaagaatga cagataaagg ctccttcca gaaaaatacc agggtcacat
137701 gtgtcaaact gaaaaatata ttcggaaagggt ttgtggact acaatggcca cttctctcc
137761 tcctctctgg gccaagtaca ctgggtgtat getatatttg tctatttgc tgacacat
137821 aaattctcag gtgacacact gaattatggt gggcactatc aacagtggac accccccaa
137881 agggcctcag gaagcactgg gcctggaaat gggcggcggcgt tgattatcc tgctttacag
137941 atagaaactg aggctcagag agcaatgggt gcctcaagat cagaacctac acctgtgtga
138001 tggccaagcc caggttccctt ccacaggctt ccaaggccac atcttggaaa aagccctgaa
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138121 gcaatgttgg gttggcatggg aggacaggga aaagcttcat aagagggtat ttcaaggc
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138241 atttcagatg tggggactg ggagggcagg gtccccgggg gattcacacg tgggaggagg
138301 aaggctggac acagttctg gggacagaag tgggtggcgt ggtggcgt atgtggaga
138361 gaaacaaggg aaacctgca ctcacccggcc tcatttcaca agggccact ttgtgtatt
138421 tgcttggc ttttaactttt ttattggata ttttagttta aagctttga atatttcgg
138481 aaagagtcag ttggtcagtt ttcatgtgag cttctatca gcattttagg aaagtttca
138541 tctgtcttcc atcagatctc tgctgttgc gggacaggga gacggatctc tctgcggaa

FIGURE 2 (cont.'d)

138601 caaggatgtg tgccccaccc ccagactacc catcttggag ggggactaat gaggggctgt
138661 gggaggagga agctgttagag cagagaggaa gattggggc cagacaaaac agagactcgg
138721 gatgagagag ggggaggcta tggggaaagag ctgaggaaaa caagggacgg agagaggat
138781 tgggttagtg gatagggaga ccaaggggca gagaaggggg aaaatgtgg acagagagcc
138841 ggagatttag ggagcagaga aggggcctct gagaggtggc tggaaagacag agtgttagagg
138901 aaaattcaga gcaaaaaaga agggagagt gttaggtaga gagcagaaac gggggcatt
138961 tagggactg ggagcagggg aaggaagagg aggacagaaga gggggcagaa tgttagggaaa
139021 agatggctca gagggggaga ctgggagatg agagacggat tgagggcat accaaagaaa
139081 tattttatgtt ccactaatat attccattc acaagaaggaa ggtattctag attaatttt
139141 tcatgaatgt aagaatactc actgacttaa gaagcatgaa tcattataac actttctac
139201 acttggtagaa catattcaag tatcatatat taaacaccac gctattgccc ttatcttct
139261 taaaagtacc agcacagaat gaaatggcc aactaagatt tctcagaaat cttcagatct
139321 gttacagttc tcgtatccgat tctgaattac tttaaattta cagagttaaa gaaataaaatc
139381 aacttggtaa atttgcctag acttgggtta gcctctggaa acaggccat tctgtgttagg
139441 atcccggtt tctccagcag acagtggagga gccaaggaa acacaaccgt ttataggata
139501 atcccacctg cgaaggactt gattcccaatc cctgactgaa tcactatgcg gaactctgat
139561 gagaataaca agggacctgt gactcaatc atcaaggaaa aaatcagtcc tgcatttat
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139681 aaattgtgtg gaaatacctt tattgttatt ttatcgtaa ctactgttaa caatacagat
139741 ttaaacacctt ttccctgtaa aatgggataa ccttgcattc tcagcaagta ttccctctag
139801 gttttctttt ttacccattc cccaaaaagga tgattgttct tacagatacc aagctgggag
139861 aatgaggaag tagttctggg ctggcaaga gaaagtgtt agtaactttt catcaacagg
139921 aacttctca aaagctgatt ttttcaagga aactttcagc tttagtgcgtt tccccaccc
139981 gcggttagccc ccaccccaa ccacccccc gcccacccct gacttatagc cctctcaacc
140041 caatggaaat gtgacatgca aatctctctt gaaatttgc cctggattc cggctgaggt
140101 gtttaattat aatgtcattt gaatgacttc tcagggttagg ggaagacaga ccgagagagg
140161 gagatagtgg acaaaacagt gccttcactt tttgtccgaa gagcccgcta tggccacggt
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140341 acttacaaag gggaaagtgc ctgttccctt tccttctccc ccagggtgtgg ggaatccatg
140401 aaataatgga agtaaatgaa ggtgcgtcag aatggcaga ggggtccatc accctaaatg
140461 gacgacacat taactccagg gcacccgcgtt cctcagggtc agttcccgaa ctggggcaac
140521 taagcaactg aaggttgc tgcgtactcaa cacctaactt ttcttgaagg gagctcaagc
140581 caggatgcta gtgaacttgg ctgaggccca tgcgtgtcta cagcgggtt atggctcct
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140701 ttaggctctg cacacctaaa acacaaattt tatccaagag taatcagtgg aaacatgaac
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140881 ggggtggaa ggaactgata ttccctgcgc acctgcagta tgcgtggac tattaccagt
140941 catttacgga ggcgttccct tgcgtccaggat actggattag gcacttcatt aaaggctcag
141001 tgagaactgc gacccgttca tgcgtcatgga aaagactgtt ggggtggaa ttccaggcca
141061 gatcagcatt aggaacttagc ttccaaatgc tgagggtctt ctcgcgttcc cacacccatgc
141121 gtggaaagtgt tccctgggtt acattctgtt gggagggagt gcagcccttc catttaggaa
141181 aacccctccc tggcctgggt tctgttccctt ccctttaattt tccttgggg actgtcttga
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141721 gtacccacccg gccactggga gcccaggcca cggcccaatgtt ctttttttttttttttt
141781 gggtcctgaa cacccttccagg cctgtccggg cccggccgcac gggccctcg gggccggcc
141841 caggcctctg ccgtccaaac cgggtccccc acgcacccatca gccccggcctc caccctgtgg

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FIGURE 2 (cont.'d)

141901 ccgccccgcgc tcacccgcgcc acgctcgaag tcgttgtaga agggctgtc cagcagggtgc
141961 ttctcgctgc agcccgccga gcccacgagg ctgaggtaga tgtagtcgtc agtgtctca
142021 ccacggggtg aagtacggtc cnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnnn
142081 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnnn
142141 nttttgggt tgggttgc tctttgttt tgcgagcgt cttccgcgc cgtggtaag
142201 acaagtgggc gcctctgcct ggccatccca tctggggaggt gaggagtgc tctccggc
142261 caccggcgct gggaaagttag gagcgtgtct acccagccac cacgtctgg aggtgaggag
142321 cgcttctgc tggccgcccc atctgggaag tgaggagcgc ctctatctgg ccaccccttc
142381 tggaaagtga ggagtgcctc tgcccgccg ccaccccgcc tcggaggcga ggagcacctc
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142741 gccatgatga cgatggcggt ttgtcaaaa agaaaaagggg gaaatgtggg gaaaagaaaag
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142861 ttctgtacta agaaaaattt ttctgcctt ggtatgtt aatgtacaac ctaccccca
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143161 actatgactc tgccacatcc ccctctctga gaaacacccca agaatgatca ataaataacta
143221 aaaaaacaaa ttaattaattt aaataaaattt catatggAAC caaaaaagag cctgcattgc
143281 caagtcaatc ttaagccaaa ggaacaaagc tggaggcatc acactacgtg acttcaaact
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143581 gaaactggat cccttcctta catttataac aaaaatttaat tcaagatggA taaaagactt
143641 acatgtttaga cctaaaaacca taaaaacccct agaagaaaaac cttaggaataa ccattcagga
143701 cataggcatg ggcaaggact tcatgcctaa aacacccaaa gcaatggca tgaaagccaa
143761 aattgacaaa tggatctaa ttaaactaaa gagttctgc acagaaaaag aaactaccat
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143941 ccccatcaaa atgtggccca agaaaaagaa cagacacttc tcaaaagaag gcatttatgc
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145081 aactatgtct gtcttaggaat aaagccagct aattagattc ttattctaag gaacaagaag
145141 agggcaggta agaatttgat tatggcagaa ttctgaccat aatcaataac tggggatctat

FIGURE 2 (cont.'d)

145201 ttttctcca tggttcatac ctgactttca tcatttccaa tgattcctgt
145261 ttgtttgtt tataaatttc aaaatcatca taaaaagttt cactgaatga aaacctgaaa
145321 attggaaat aaacatttt ctgcaaaaaaaaaaa tgaacactga cttctcctat
145381 ttctcaaagt catctcaaag ccatatgagg attaccacaa acttgaggt gagaaaattc
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145501 caaaaatgtc tgaaccctaa atctaacaact tcaaaggaaa gcattatTT tcattcatt
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146101 ggctcacgccc tgaatccca gcacttaggg aggccaaggc aggccgctca tctgggtca
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146461 aaagaaagaa aaagaaagaa agaaaaagaaa gaaagaagga aagagacaga aagaaagaag
146521 ggaagaaaga aagaaaagaaa gaaagaaaga aagaaagaaa gaaagaaaga aagaaagaag
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146641 aagagaaaga aagaaaagaaa gaaaggagag acagaacgaa gggaaagg aaggaattat
146701 ttccctttt cccaccacg cctcaccaca aaccttggg tggggataac atgtaaaaagt
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146881 cataaaggga ggagaataac cagtggctt ttcatgcaga gaatcagggt agacctctgg
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147061 atgagttatgtt gattttgtt tccttcttcaaaa aaaaacaagaa ttgagttcac actaatcaca
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147181 agtcaagaag ttccaaatgtt aagaatgttc cttaacttcc taagtgcac agatgtttt
147241 aactgagccca tggatggtaa atctactttaa gaaagcacat gccatggaaa gatagcattt
147301 gctgccctgc ctacttcttca tggcacagcc ttgcaggaa gggaaagggc caagaggca
147361 aaggcctgttc ttgttcttcaaggcacaagg aggtggaaa tttagggaaa ctcacccaaa
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147601 tgggggtgtt aagaggggtt gcttaatggg tacaacata tagttatgtt gaaaggataa
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147841 ataccatatgt tacccatataat atatgtacaa atattatgtt tcaaaaaaaaaa tttttttttt
147901 gaagctgcaaa tcaacatttc atcattatct tttcagcagc atccttacaa agttacagag
147961 acatcttaag atgtatccctt ctccctcttca atcttcttgg gatagaacaa atgaaaacta
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148081 tatgagcttc ctctgttcaat gagtagagttt gggaaaatag agtcttgaca attgattttt
148141 tattttttttt ttcttcttcaat ccccaatgtt tttttttttt tttttttttt tttttttttt
148201 acaggggctta attctgtttt gttatgttttcaaa caggccagaa gaaactgaaa taggttataaa
148261 atgtttgttcaat ctggccaaaaa gaagatgttag tcacacacaaa taccctctgg aggaaaagtgt
148321 ctgtcaggaa agtacttttccatgttcaat gagtagagttt gggaaaatag cactatTT tcctgttcaat
148381 gaagtacatt tgcctgttcaat gacagtggctt ccaggccatc ctgtggacat
148441 gccacaagttt ccactccatgttcaat gagtagagttt gggaaaatag agtcttgaaa aactttaggg

FIGURE 2 (cont.'d)

148501 tgctctcttg agcttagcct tatgctgcgt gtctgctttg ccaaccacaa aaacgatagt
148561 ttcatalogcaa gttgcaggct ccctggaaac ttaacctacc tactaggata catttacagc
148621 tgctttctc ctggcatcg gctggagatc aagaataaca taaaacatag tccctgcct
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148741 acgatggcc aaaatatggg cttaaacaaa ggttgtggg gctcagaaaa ggagcaactc
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148981 agtggctgaa gcatgggtgtt attgtcaatt ttgttgtca acttggtcg gctgtgtac
149041 tcaactattc aaccaagcac tgatcttagt attgttgtca aggtattttg tagtc当地
149101 taacctctac aatcagttga ctctatttaa aggacattat tctgtactat ctgagtg当地
149161 ctgatccact tcatccccaa ggttaatgtat tctccaacag tggtctcatc tacatctagg
149221 gtttggaaaga tgaaggtgaa ggagaatatg gaaaaacaac aaaaaaaaaa tcaatcaatc
149281 agaacttcca gccctgtgtt tgtagttca cttagtttc aaccagtatg tctccactt
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149521 attggaaattt gttctaaggc ccgacagcaa atgaagaaat ccaagaaagc ctaccaattt
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149761 agcccatctc tggctctatg ttgcagaagt tctattccaa gaaagtttga ctgagaatct
149821 gaagcttc当地 tcttccactc agcctctact attaaggcgt aagttctatc cccagtgcca
149881 cgggccaaga atactgatgc tgaatgtc当地 tgcccgctc cactcatagg gcagagattc
149941 catgggagga gtgaagttc cattccagaa aaggcagaaa aacagaaaatt actgccc当地
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150241 gtaagcaatt aataggtaa tggcagctt gtagagc当地 caaactaaac cataaaccag
150301 ctagacatat acaataaaaaa tccaaagaaag agagagccaa gaaggccctt cctgagg
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150421 gatcagactg tggagcaatt tatggccctt aaaaactgtc aaaaacaaa gagcaattt
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150901 tcaaagtaat tattataat atgtcaaaa actaaaagaa aatgtgctt aaaaataaaaa
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151021 caaaaatgtt taaacaaaat gggaaattctg gggttttaaaa gtaaaaataac aacaataaga
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151381 agtttccaa gacagtataa taagatataa aaataacaga aagctaaaa gcatataaaa
151441 aaagttaaaa tgttagaggtt tttttgtt tcttttgc当地 tgatttgtt ttttattt
151501 caatcgtt tttttcttca agcataaaaat aatgggtt aagatagtat ttgc当地
151561 catagtaacc tcaaatttaa aaacatacaa ttttgc当地 aaaaagtc当地 agcaagaaa
151621 taaaacatac caccaaaaaa aatacttca ctttttgc当地 gacaggaaat aagaaaa
151681 gggagagaag atcacaac aaccagaaaa taaaataacaa aatggcaagc aagtc当地
151741 ttgtcaataa taatatttgc当地 tgtaaatttgc当地 ctatactctc cagtttttgc当地 atacagatgt

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FIGURE 2 (cont.'d)

151801 gttgaatgga ttaaaaaaaa ggacccaatg atctgttacc tacaagaaat aaacttcact
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 151921 ccaaaaaaga acaggagtag ctataccctt atcagactaa atagattca agacaaaaat
 151981 tgtaaagaaa aaccaaataa ggtcattata taatgataaa gagatcgtt aagcaagagg
 152041 atgtaaacaat tgtaaatata tatgcactca acattggagc acctagataa ataaaaacaaa
 152101 tattattaga gctaaagaaa gatagacccc ctccccccaa acaataatag ctgttagattt
 152161 caatgctcca ctttcagcat tggacagatc ttccagacag aaaatcagca aggaaacatc
 152221 agatgtaatc tgaactatag accaaatggg cctaataagt atttacagaa tatttcatcc
 152281 aaagggttaca gaagacacat ttttctcctt agcacataca tcatttc当地 gacaggcca
 152341 tatatttagt catgaatcaa gtctcaaaac attcaaaaaa actgaaataa tctcaagcat
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 152461 tacaaaaaca tggaaattaa acaatatgtt cctaaatgtat aagtgggtca atgaagaaaat
 152521 tatgaattga attggaaaatt ttctaaaaac aaatgacataat ggaaacataa tgacccagaa
 152581 cctatgggat acaacaaaag cagttaccaag agtgcattt ccagataagg goctacatca
 152641 aaaaggaaga aaaacttcaa gtgaataacc tgatgtgca tcttaaagaa taaaaaggc
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 152761 taaaataaaat tggacttctg ctccaaatggat gcctaaataga aacagetcca gtctgcagct
 152821 cccagcatga ttggcacaga agatgggtga tttctgcatt tccaactgag gtaccagggtt
 152881 catctcattt ggactgggtt gacaatggat cgacccatg gagggtgagg tgaaggcagg
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 153001 ggaagccgtg acagactgtt cctggaaaat cggttcaactt ccacccaaat actgtgctt
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 153661 ccagcagacc tgcagctgat ggacctgact gctagaagga aaactaacaa aaaaaagg
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 155041 gcaaagacac acataggat ggaggaagat ccaccaagca aatggaaagc caaaaaaaaaa

FIGURE 2 (cont.'d)

155101 aaaaaaaaaaa aaaaaagcag gggttgcaat cctagtctct gataaaacag agtttaaacc
155161 aacaaagatc caaagagaca aagaaagcca ttacataatg gtaaaaggat caataacaaca
155221 agaagaacaa actatcctaa atatatatgc aaccaaatatg ggagcacccca gattcataaaa
155281 gcaagtctgt agagacgtac aaagagatgt agacttccac acaataataa tggagactt
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155581 tgtctcagac tacagtgcaa acaaattaga actctggatt aataaaactca ctc当地atca
155641 cacaactaca tggaaactga ataacctgct cctgaatgac tactgggtac ataatgaaat
155701 gaaggcagaa ataaagatgt tctttgcaac caataagaac aaagacacaa cataccagat
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156181 aagaaggggg aggagccaag atggccaaat aggaacagct ccagtctaca gctcccagcg
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156481 actttccaa cgggcttaaa aaacggcga cctggagagt atatccgca cctggcttgg
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FIGURE 2 (cont.'d)

158401 taaaacagac tttaaaccaa cacagatcaa aagagacaaa gaaggccatt acttaatgg
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161401 aagaagacat ttatgcagcc aacagacaca tggaaaaatg ctcatcatca ctggccatca
161461 gagaatgca aatcaaaaacc acaatgagat accatctcacc accagttaga atgacgatca
161521 ttaaagtcag gaaacaacag atgctggaga ggacatggag aaataggaat gctttacac
161581 tgggggggg ggttaaattt agttcaatca ttgttgaaga cagtgtggca attcctcaag
161641 gatctagaac tagaaatacc atttgacccca gcaatcccat tactgggtat ataccgaaaa

FIGURE 2 (cont. 'd)

161701 gattacaaat ggtgcaacta taaagacaca tgcacacgaa tggtttattgtt ggcactattc
161761 acaatagcaa agacttctaa caaacccaga tgtccatcaa tgatagactg gattaagaaa
161821 atgtggcaca tatacaccat ggaatactat gcagccataa aaaaggatga gttcatgtcc
161881 ttttcaggga catggatgaa gctggaaacc atcattctca gcaaactatg acaaggacag
161941 aaaaccaaac accgcatgtt ctcactcata gatgggaact gaacaatgag aacacttgg
162001 cacagggcag ggaacatcac acaccaggc ctgtggggg gtggtgact gggggagaga
162061 tagcatttagg agaaatacct aatgttaatg atgagttgtat ggatgcagca accaacadgg
162121 gcacatctat acctatgtaa gaaacctgca ctttgtcac aggtacccta gaacttgaag
162181 tataataaaa atgaaaaaaa gaaaatgtt ctagcaaattt gtagatgggt atacctaata
162241 taactctgca tggcactat gtgtctggat acacatggaa agtattcagg catacacacc
162301 aaattgttaa aataaatccc cttccaacat taggagtggc tggggagcg atggcttca
162361 cttccgcaca ttccatggt ccagggtaat accacatcac aatagtaaat agcaaaaata
162421 acaaccttaa gtttagattt tcttatctaa attttaattt tggtaagaag ttccatttt
162481 ccttttcac acaggatagt agaatgcagt ttagaaagag tgagatcact tggtagactg
162541 tacaatttt aagcatcagc gaagtatacc attaaacttc tctatcaatc cattctctaa
162601 acttcccaac ccaaaaaaaaaa agaaacacat aaaattgaaa tgaagaaaac aatacaaaaag
162661 atcaacaaaa atgaaagggtt ggcttttaa agagataaaac aaaattgaca aatgtttagc
162721 cagactaaga aaaagagaag gcccaataa ataaaatcag agataaaaaa gcagacattt
162781 taactgatac tggcggaaatt caaaggatca ttaatggcta ctatgagca ctgtatgcca
162841 aacattggaa aatattgaag aaatagataa attcgttagac acacgcaccc taacaagatt
162901 caaccatgaa gaaattcaaa atctgaacag accaaaaaaca agtaacaaga tcaaagccat
162961 attaaaattt ttcccagcaa agaaaagcct gagacccaaat ggcttactg ctgaattctt
163021 tcaaacattt aaagaactaa taccaatctt actcaaacta ttccaaaaag tagaagagga
163081 gggatatattt ccaaacttat tctatgaggc cattactgct cctatatcaa aaccaaggac
163141 acatcaaaaa aagaaaaacta taggcaata ttcacatga atattgatga atcctcaaaa
163201 aatgcttagca aactgaattt aacatcacat taaaatcat tcattatgac caaatgggat
163261 ttatcccagg gatgcaaaata tggttcaaca tatacacatc agtcagtgt acaatatcata
163321 tcaacagaat gaagaagaaa aaccatatgg tcatgttaat ttagtgcgaa aaagtattt
163381 agagaattaa acatctttc atgacaaaaaa ccctcaaaaaa cactggagac agaaggaaaca
163441 tacctcaaca caataaacag acatatatga cagactcaca gctagaatca tactaaatgg
163501 ggagaaactg aaagtcatc tctaaagatc tggacaacaaga caaggatgct cattttcacc
163561 agtgttagt gaacatagta ctgaaagtcc tagctagaac agactagaga cagaataaaag
163621 gggcatccaa actgggaaaga gagaagtcaa attaccttg ttgcagatg gtatgatctt
163681 ctgtttggaa aaaccttagac tccataaaaa aatgattaga actgataaat tcagtaaagt
163741 ttcaaggatac aaaattaaca tacaaaaaatc agtagcattt ctatatgtca atagcaaaca
163801 atctgaaaat gaaatcaagg aagtaatccc attccatt tgcaatagct ataaataaaa
163861 ttaatataat ctcatcttt caataagtgg tggggaaa actgcataatc cacataaaaa
163921 agaataaaaat tagacccttt taatatacaa aactggaccc aagttatataat acaaaaaattt
163981 acttgaatg aattaaagac ttaaatgtaa gatctgaaac caaaaactcc tagagagaaa
164041 catagggaa aagctcttgc acgttggct tggcaataat ttttggat attacaccaa
164101 aagcacagac ttttggaaaaaa ataaacaagt aggactacat caaactaaaa agcttctgca
164161 tggcaaaaaga aagtcaacaa catgaaaagg caacctacag aatggaggaa aatatttgc
164221 aaccatatac ctgtatgagaa gttaatatca aatatacgaa aatataataag gaactcacat
164281 atctcaatac caaaaaataa ataacctgtt ttataatggg caaaggaccc gaatagacat
164341 ttttcaaaag aagacacaca gatggccaaac gagtgcagga aaaagcgttca aacatcacta
164401 atcatcaggg aatgtcaaat caaaaccaca atgagatatac actccacacc tgtaggaaa
164461 gctattatga aaaacacaag agacaatgaa tattggcaag ggcattggaga aaaaagaacc
164521 ctgtacact gttgttagaa atgtaaatttgc caacagcatt tatggaaaat agaatggagg
164581 ttccctcaaaa aataaaaaataa gaactaccat acaatcttagc aattccactt atgagttgtac
164641 atccaaagga atcaaatac tatgtcaaaag agatatactgt acttccttgc ttattgcagc
164701 ttactcaca gtggcaaga taaggaaaaaa atctaaatgtt ccatcaacgg ataaagaaaa
164761 tggggggagg ggtgtcgt tatacataca caatggacta ttttcagcc ataacaaga
164821 agggaaaccct gccatttgc acgatatacgaa tgaacccaga ggacattatg ttaagtgaaa
164881 taagccagac acagaaatac aaatattgtt ttagtgcatt tatatgcgaa tctaaaaatt
164941 tcaaacttgc agacgaaataa ttagaacagt attatcagg agcttagggg tgggggaaag

FIGURE 2 (cont.'d)

165001 aagcaaaaata ttgggcaaaag agtataaaact ttcatgtatc agatgaaggc cagggtcgat
165061 ggctcatgtt ggtatccca atacatttgc aggctgaggc agagggattt cttgagacca
165121 gcctaggcaa gaaagtgaga cctcatctc aaaaaaaaaa aaaataaaag aatcagctgg
165181 gagtggtggc atacacctgt agtcccagct agtcaggagg ctgagggggg aggatcattt
165241 gaaattggaa agtcaaggct gcagtcagcc aaaaaaaaaa agatagtc cactgcattt cagcctgggt
165301 gacagagcga aaccctgtct caaaaaaaaaa aaaaaaaaaa agatgaataa gttctgggaa
165361 tcaaatgtac agcatggta ctatagttt taactgcgtt attactgaa attggataaag
165421 agcagattt aagcatcccc agcacccccc caacatacac acacacaaaat gtaactata
165481 ggtggtgata gatatgttaa tttgactgtg acaatcagca ttcaatataat acatataatca
165541 aatcatcaca ttttacccct tgaaatagaa actttgattt gtcaatcaaa tattttaaaa
165601 cgaaaataat cataatatta atatagcata cagaaaaaaa ttcgtatct cgactgatac
165661 agaaaatttca atgataaaaaa cacttaaaaa caaaagaaat aaaagggAAC tccctcaacc
165721 tgataaatgg catctgtgaa aaccccccagc tagcatcaaa cttaatacag aaaggctggg
165781 tggcaccc tcgaaccagg aacaagacaa agatgcctgc tttgccact tccatttgac
165841 cttgtactga ggttctggct agggcaatta tccctgaaaa agaaataaaa ggcttccaaa
165901 taaaagaaga agtaaaacta tctctactcg ctcatgacat gatcttgcatt atagaaaatg
165961 tgcacatgt acacacacca aaccattaga actaataaac aagttcagca agttgcaga
166021 atataaaatg aatgtacaaa aatcaagtgt ttttctatat actagcaatt aacaatctca
166081 aaatgaatta aaattccatt tacaatagta tcaaacataa attattnaga aataaaaatg
166141 gcactgaaaa ctacaaaata ttttggaaa aatcagaaaa gattnaaga aatggatcac
166201 ttgaacctgg gaagcagagg ttgcagtgtg ccgagatgtt accactgcac tttagcctgg
166261 gcaacagagg gagactccaa agagtcgaaa agaaaagaaa agatttaaat aagctgaaac
166321 atattctatg gatcagaaga cttaatattt gtaaagtgc aatattcccc aaattgatct
166381 acagctcaa ctcacccct atcaaaaatcc tagcttgcct ttttgcgaa attgacaagc
166441 tgattctata atttatatgg aatctcaaag gatccagaat aaccaaaaca atattgaaaa
166501 ataaagaaca gogttgggg attaacattt tccaatttca aaacttacta tagcactgcf
166561 gtaatcaagc agtggcgcac tggatagcat gtacattaca gatcagtggc ctgaaatcaa
166621 tggccggaaaa taacccgtt ttttataat gaattacttt ttaataaggt gtcaagacaa
166681 cgcaatgggaa aaaaataat gaattcaaca aatgatgcattt ggacaaccgg acatgcacat
166741 gcaacacaat gaatttgaat ttttctatcg ctccatgcattt aaaaactaaac tcaaaatggg
166801 tcacggatgt aaatgaaaag cttaaaactat aataatccta gaggaaaacc taggataaa
166861 tcttaagat gtatttgtg gcaatgggtt ctcagatagg aacccaaaat cacaagcgac
166921 aaaagaaaattt ggacttaaag taaaataactt ttgtgcattt aacatcatca agaaagtgg
166981 aacacaaccc gcagaagcaa taaaatgtc tggatgtcat gtatccgattt agagacttct
167041 atccaggata tataaataat gcaattcaat gataaaaaaa ataaatagcc cagtttccca
167101 aagagtcaag catctgaata tacatctc cttttttttt cttttttttt cttttttttt
167161 gaaaagatgt tcaaagccat ttgcagggtt cacaacccca agacagtatg aggagatgct
167221 acagggactc tgctgcattt cagacatgaa gcttgggtt gatgttaggc agccgcctt
167281 ggggacttca catccccggc gccccacgca cggtgagctt gtgtttaaac tttagccgaga
167341 tcaatacactg cgtactgtgtt cccgtcagac cctgcgttc cggcggggctt gggagaggcg
167401 ggcgcgggaa gttttttttt acctgggggtt caggccccag cccggggaaag ccggcccgaa
167461 ggcgcggaaa ctttctccac acccttccag gatatttgc cccgcgttcc agagagccga
167521 cccgtgaccc ctggcctccctt ctagacagcc cccgtatgttcc agatgtggcc tccgcctgc
167581 ctcccgac cactggccat ctctgggcctt gggcgcggc tcggcggccg cctgcccccg
167641 ccaggagccg cagggtccagc cagtgaagaa gcccgcgtt aaggagcctc tggatctccag
167701 aatccatctt cagtatcagc gctgggggtt ctttctccag gaagccctt cttttttttt
167761 atgggtcgct ctccctctgc agactccccgg agcacccttgc ctccaaagtac cgcaagtggc
167821 actgagaact tggggagacg agaggctgtt cttttttttt tagggagtcc cccgcagctcc
167881 accccaggccttca cttttttttt cttttttttt cttttttttt cttttttttt cttttttttt
167941 ggtggaaagca attcaggaga gaacgagtga acgaatggat ggggggtggc agccgagggtt
168001 gccccagttcc cttggcgttca ggaacagaca cctgcgttcc gagagacca ggagcggaggc
168061 ccctgcccccg cccgaggcga gttttttttt agtcggcgcc gctgtaaagag tggagagagaa
168121 tactgcgggg gggggggcgg gggcggggggc gggggcgggg gcccggggc gcctggagcc
168181 agaccggggcg gggccggcactt cggggccaggc acagtggggg aggaggctgc gggctgagcg
168241 accctgaccc cccccacttcc gctgttttcc cttttttttt

FIGURE 3

1 gggcgccgag gctccccgc gctcgctgct ccccgccccg cgccatgccccc tcctacacgg
61 tcaccgtggc cactggcagc cagtggttcg ccggactgta cgactacatc tacctcagcc
121 tcgtgggctc ggccggctgc agcgagaagc acctgctgga caagcccttc tacaacgact
181 tcgagcgtgg cgccgtggat tcatacgacg tgactgtgga cgaggaactg ggcgagatcc
241 agctggtcag aatcgagaag cgcaagtaact ggctaatgta cgactggta ctgaagtaca
301 tcacgctgaa gacgccccac ggggactaca tcgagttccc ctgctaccgc tggatcaccg
361 gcgatgtcg ggttgcctg agggatggac gcgaaagtt gggccgagat gaccaaattc
421 acattctcaa gcaacaccga cgtaaagaac tggaaacacg gaaaaacaaa tatcgatgg
481 tggagtggaa ccctgcttc cccttgagca tcgatgcca atgccacaag gatttacccc
541 gtgatatatcca gtttgatagt gaaaaaggag tggactttgt tctgaattac tccaaagcga
601 tggagaacct gttcatcaac cgcttcatgc acatgttcca gtcttcttgg aatgacttcg
661 ccgactttga gaaaatcttt gtcaagatca gcaacactat ttctgagcgg gtcataatc
721 actggcagga agacctgatg tttggctacc agttcctgaa tggctgcaac cctgtgttga
781 tccggcgctg cacagagctg cccgagaagc tcccggtgac cacggagatg gtagagtgc
841 gcctggagcg gcagctcagc ttggagcagg aggtccagca agggAACATT ttcatcgtgg
901 actttgagct gctggatggc atcgatgcca aaaaaacaga cccctgcaca ctccagttcc
961 tggccgctcc catctgcttgc ctgtataaga acctggccaa caagattgtc cccattgcca
1021 tccagctcaa ccaaattcccg ggagatgaga accctatttt cttcccttcg gatcaaaat
1081 acgactggct tttggccaaa atctgggtgc gttccagtga cttccacgtc caccagacca
1141 tcacccacct tctgcaaca catctgggtg ctgaggttt tggcattgca atgtaccgc
1201 agctgcctgc tttgcacccc attttcaagc tgctgggtggc acacgtgaga ttccacattg
1261 caatcaacac caaggcccgt gaggcgtca tctgcagtg tggcctctt gacaaggcca
1321 acgccacagg gggcggtggg cacgtgcaga tggcgcagag ggccatgaa gacctgaccc
1381 atgcctccct gtgtttccc qaggccatca aggccccggg catggagagc aaagaagaca
1441 tccccctacta cttctaccgg gacgacgggc tctctgggtg ggaagccatc aggacgttca
1501 cggccgaggt ggtagacatc tactacgagg gcgaccagg tggggaggag gacccggagc
1561 tgcaggactt cgtgaacatg gtctacgtgt acggcatgca gggccgcaag ttctcaggct
1621 tcccccaagtc ggtcaagagc cgggagcagc tgctggagta cctgaccgtg gtgatctca
1681 ccgcctccgc ccagcacgccc gcggtaact tggccagta cgactgggtgc ttctggatcc
1741 ccaatgcgccc cccaaaccatg cgagccccgg caccgactgc caagggcggtg gtgaccattg
1801 agcagatcgt ggacacgctg cccgaccggc gccgctccctg ctggcatctg ggtgcagtgt
1861 gggcgctgaa ccagttccag gaaaacgagc ttttcctggg catgtaccca gaagagcatt
1921 ttatcgagaa gcctgtgaa gaaagccatgg cccgattcccg caagaacctc gaggccattt
1981 tcagcgtgat tgctgagcgc aacaagaaga agcagctgcc atattactac ttgtccccag
2041 accggattcc gaacagtgtg gccatctgaa cacactgcca gtctcactgt gggaaaggcca
2101 gctgccccag ccagatggac tccagcctgc ctggcaggct gtctggccag gctcttggc
2161 agtcacatct cttccctccga ggccagtacc ttccattta ttctttgatc ttcaaggaaac
2221 tgcatacgatt gtatcaaagt gtaaaacacca tagggaccca ttctacacag agcaggactg
2281 cacaggcgtc ctgtccacac ccagctcagc atttccacac caagcagcaa cagcaaattca
2341 cgaccactga tagatgtcta ttcttggg agacatggg tgattatttt ctgtttctatt
2401 tggcttagt ccaattccct gcacatagta ggtaccaat tcaattacta ttgaatgaat
2461 taagaattgg ttgcataaa aataaaatcaat ttcat

FIGURE 4

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FIGURE 4 (cont.'d)

3301 tcaaaatgct cgctatgtt attctatgtt caacttccaa ggggaccttt ntaccccta
3361 tcttcatcg caagcaacta cattgatttt gtagccagg atctattccc acgtcaaccg
3421 tgggttcaa atgttgc tc tagctcaatg gcctttaag ccactaaccc aatatgtgc
3481 ttttaccag taaaaaaagtg catctggga ataagttgtt gtatattgtt ggttcagcca
3541 gccccatagat cgtccagagg accccaggct taggaggaat cctcagattt gagagccact
3601 gtcctgtatg atgcagatag cacagcttt cctgaaaata ggaattcaaa tgagaaaaaa
3661 taaaaactctt cctaatttt ttcttcgtcc tctttcatc caagctcatc taattatcat
3721 gctctattgtt gaagaatcaa agaaagaact cataaaatata cctttgtgc ctgtatTTG
3781 aatgtacgtt gtgcatttgc tttttttttt ttaagcaaat gtcaagaaaaa tccctatgtcc
3841 cattgcttac agtcaatatg gggcaattca agcaaagtat atgcctctaa tatggttga
3901 aaattctgaa agttcagaaa aaatgttgc acttcagcca tctgtatgtt ctggatattt
3961 agaatgagac ctccctccc tctgtttcc tcatttccat ctcctccccc ctctttctcc
4021 tctctccccc tcctttatcc tcctctccc tcctctctt ccatgttac tccctctccc
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4141 ctttcctctc ctccctccct ctcccttatt ctccctctcc ctccctctcc tctctcccccc
4201 ttttcctata ttcccagatt aggccatttt caaaacttgg taaacattcc cccaaagcat
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4321 gcaaagatca agccattttc tcttgatgtt atgcttcagc attttatgca ttggaaacaa
4381 attttatgtt aaaaaaaagct tagccctttt gtagccccca ttccctttt ggtatgtctq
4441 cccaaagaatc aagacccaaac gtccagctt tcaaattttc tctggaccc tannnnnnnnn
4501 nnn
4561 nnn
4621 aaagtagttt ttccaaattt tttttttttt tttttttttt tttttttttt gatggactg
4681 aagattttct tcattttttt gactgcattt cattccatgg agtataatgtt ccacattttc
4741 ttatccaaat tcactgttttgg tgggcaccta ggtcaattcc atgactttgc tttttttttt
4801 agtactgcaaa tgaacatgtt agtgcattgtt tttttttttt ggaataattt gttctctttt
4861 ggtatataac ccagtaatgg ggttgcgtttt ccataatggta gtttgcgtttt aagtttttt
4921 agaaatctcc aaactgctt ccacagaggc tgaactaattt gacattccca ctggcatgca
4981 tgagcattcc cttttctctt cagctccacc aacatctttt gctttctgac tttttttttt
5041 tagccattctt gatgtgttgg atggtagccc attgggggtt tttttttttt tttaagaca
5101 gagtttcaact ctgtcacca ggctgtggca caatgttggc tcgttgcac ctctgcctcc
5161 tgggttcaag tgattcttcc acctcagccct actgagaagc taggttaca ggcacctgccc
5221 accacaccca gctaattttt gtttttttttgg tagagacagg gtttagccat attggcaagg
5281 ctggctctt actccctgacc tcaggtgacc cacctgcctt ggcttcccaa agtgcgtgg
5341 ttgcattgtt tagtaccat ggttgcgtttt tgacttgcattt ttctctgtatg attagtaatg
5401 atgatccctt tttcatacat ttgttggca cttgtatgtt ttctttttttttagt aagtgtctgt
5461 tcataatctt tgccctttt tcaatgggtt ttttttttttcc ttgttccagtt tttaagttt
5521 ttatagatt ctggatatta gtcctttttt ggttgcataa ttgttgcataa ttgttgcataa
5581 ttctgttaggt tatctattttt atctgttgcattt agtgcattttt ttgttgcataa agttgttgc
5641 ttaattttagg ttcacttgtt caatttctgtt tttttttttttagt attgttttttgg aggacttaat
5701 cataaattctt ttcccaaggc ccattgtccagg aatgggtttt ctgagatttt ttctcttgg
5761 tcttttactt caaggtcttta tattttttttt tttttttttt tttttttttt tttttttttt
5821 tggccaaatg taggtgttcc ttgttattttt tttttttttt tttttttttt tttttttttt
5881 ccatttcattt actaggaggc cttttccca ttgttactt ttggcaactt tttttttttt
5941 tagatggctg taagtgttca gatttttttcc tttttttttt tttttttttt tttttttttt
6001 gtagtgcattt tcgtacttgc accatgttgc ttgttactt gtagtgcattt tttttttttt
6061 tgaagccagg taatgttgcattt cttttttttt ttgttgcattt ttgttgcattt tttttttttt
6121 ctctctgtt ttgttgcattt atatgttgcattt tttttttttt ttgttgcattt tttttttttt
6181 atgacatttttgg tagttttttttt gttttttttt tttttttttt tttttttttt tttttttttt
6241 atggccattt taatgttgcattt gttttttttt tttttttttt tttttttttt tttttttttt
6301 ttgttgcattt ctctgttgcattt ttgttgcattt tttttttttt tttttttttt tttttttttt
6361 acctccctgg tttagtgcattt ttgttgcattt tttttttttt tttttttttt tttttttttt
6421 tgcaagcttgcattt aattttttttt tttttttttt tttttttttt tttttttttt tttttttttt
6481 ttgcattccat ttgttgcattt ttgttgcattt tttttttttt tttttttttt tttttttttt
6541 gtggagtctt tagttttttttt tttttttttt tttttttttt tttttttttt tttttttttt

FIGURE 4 (cont.'d)

6601 ctctctttc ctaatcgac cccttattt attccttc ccaaggctg gaaagccct
6661 ccatacttt taaaaaaa cgtaaaaa ggccccttc ttatctcg ttaaaggaac
6721 cttccatooo cgctgtcaa tggnnnnnn nnnnnnnnn nnnnnnnnn nnnnnnnnn
6781 nnnnnnnnn nnnnnnnnn nnnnnnnnn nnnnnnnnn nnnnnnnnn nnnnnnnnn
6841 nnnttggta gaaatatccg gtgcatttc ctctcagga gtttattct tccaaaaatg
6901 cagctttca ttcctcctcg ttttcttc tgtgccaa at gcctccagcc ttccatgtt
6961 ggtcggtaa gctagacatt tttagttgt agtgattgtt ttcgttgg tttgtatgtt
7021 ttgtgcca tagtcactc tgtaatgttc gtttctgagt ttcccttggg gggattaacc
7081 tgccactgaa gtgtcagctt ccctgtcatg ggactgtcct tggaatgaca ggtttcctt
7141 ccaccatagg atctgccact gtgaaggaga tgatgagagc cccctgatca cccctgcca
7201 ctgcacagga agcctccact tcgtcacca ggcctgcctg cagcagtgg tcaagagctc
7261 cgacacgcgc tgctgcgagc tctgcaagta tgagttcatc atggagacca agctgaagcc
7321 actgagaaaa gtacgtggga ggaaggatg cttcaccctt cctgaaacca gtgacccca
7381 gaaagctggt gtctcagatc atgaggtcat ggctgcctg cgtcatttc cttaaaagc
7441 tgggctgg tcttacattt gcatgtaga gattgttgg tctgtgtcg atttcaagt
7501 ccctttctc aggaagaagc tcttctgac cattcataat ctttcttc cttcaaaagt
7561 aagactgctt gcttgcgtgt gtcaatc tggccttga ctacagactg tttgtgacat
7621 atcttagcac ctaattttat acatattaac tggtaatgtc ctgcattctt gattaggact
7681 gtctgtgg gattagtata tccccagcac ccagcacatg gtacatata gtaaatttat
7741 ttgtatacac ccatgataac tatttgcgg atggagatg gatgtggg atagggaaaa
7801 gaaaggaagc acaaacgtt cgtatgtgc aactgtctt agaaaggacc cacaggcatt
7861 gcatgacacg cagctgtctg gaggccatg tcaatgtcc ctctgagagg agctttgtcc
7921 gccacactgg cttctgttt aaatttgac tggtaatgtat atctctctat atgcccagca
7981 caaaagggtt tggctggaa gataaaaaac tggtaatgtat tcagaacatt aatataaaa
8041 ttgcaagata agtcacataa tcaatataa gccaattaaa tgctaaatgg tggctgtta
8101 gagcataaca gtcattcaga aaagaaaatg ctcattatga gctagatgtc tgggaaatgt
8161 gagcgatggt agcctcatag ggtgttggg ttttagagca gttcttgaag gatcactagg
8221 atttggggc agagtgcag gatgttagag aggtcaggct gtctgtggag taaagcatac
8281 cctagaaaagg tgaaggtgaa cattgacagg gtgtcaagct acgtgcgtt taggaagtag
8341 cagggagcat ggggactgaa ggcactgact ctgtattata ggttagaaga ccagggact
8401 tgcttagtgc taaaatccca gcagaaaaaca accagattt gagaaggctt gtgcaaactg
8461 cttaaaaaaa tggggccccc agtagaaacc ttgtatattt tgggtgcct actctatgct
8521 aatctctcaa catggaaatg ctttgcggct ctatatttcaat cttccatgtca tagactcatc
8581 tggaaagagg ctgtgacttag ggttggaaa ggatgtgtc agatgttta cacattgtt
8641 ttctctcta ctttatgtt tttctctgtt attcggaaac cagtaatga aaaagaaatg
8701 ctggctattt ggagtaattt aatgagctcc tagaggagat gggactagca gagtctgtt
8761 gtaccaggaa ctcttagcgt cgatttcgag ctgttgcgtt caaagtagca aggaccaaag
8821 agtgagcgtc ttctgccatt cacccatcaca atgtatgtt acccatctgc tagtgtgtt
8881 tggcatcatc aaccctctc ttccgctcgat ccatgccatg cagcacatca gggagactt
8941 aaacgtatgt cttgggtcct gggccaaat actgtttca ttggactgtaa aatcatagaa
9001 ttcttatca ggcataatcta tggctgttgc caagaataag cagacaagggg gatttttgt
9061 ggttagttctg cattcatctt gatctggct tttttcattt gcatagaaatg tggctgcac
9121 ctggtaacctg gttgaagcca agtggtttta ggagaacaat acttgggggatgcacatct
9181 tttggaaagg gagaagtggg gtggaaagcc aatcttaccc acctacatg ctctcacccc
9241 accggagccc ttccccagaa gcctgagccct cacactctgt gttgtcttc tagtgggaga
9301 agttgcagat gacgtccagc gagcgcagga agatcatgtc ctcaatgtca ttccacgtca
9361 ttgcacatcac atgtgtggc tggccctgtt atgtgtcat tgacgtact gctgaggaga
9421 tcaagcaggc gcaggcaaca ggtgagttt caggctggag caagtcagc atggggcccg
9481 ggataagctca caggagtcctt ggggtcagag gatttccag ttagccaaaa acgtctgggt
9541 ttccggagga gggacatcag ttagaggca ctgcctctt ttttggcatt tttttgtcg
9601 tgggtgttagt ttttggaaacc cagtcaggag agttcatatt ctggagcatg agaatctccg
9661 caaactacat cttataaaag caggaagttag ctggacactg tctttcaactc ttctttgact
9721 gagcaacatt ggatgagttt tgaatccattt ggtcagtttgc gtagctggat ggtccccaga
9781 tacttggggc tgagggatgg aggattgtcg aggctcaggaa gttcaagggtt gtagtgtgcc
9841 atgatcacac ctgtgaatag ccactgcact ccagcgtggg caacatagca agactccatc

FIGURE 4 (cont.'d)

9901 tcttaaaaaa caacaacaac aacaaaggc ttaccaggg atctgcctag gtcagcgagg
9961 tggtcatca agannnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnggagtgt
10021 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnggagtgt
10081 acttcacccc gtggtaaga tgcggcacag actggcggtt cctacggcgc cttaactgga
10141 aagccccct gtggcttgg ggagaggcg gctccatccg ccacccctcc cggagctgcc
10201 cccggccatt ctatgggag gaaatcgac ggcgtgtgag ccccccaccc ctcgccccca
10261 cctctgcccag gaccggcccg atttctgcac tgcccggcc cactggaaag gaaaactctt
10321 ttctcaattt ctttaatga ggacattgtc ttttcagggcc tgccacccccc tgcaatcgtc
10381 ttccaggctg caaacagcga gtggggaggt gaacacatca gctttccctc cctccacacc
10441 accagggaaat ttgcacaaacc acttggctct cggcggccctg gcctcgccac acctgtgcc
10501 acagtctctc tccgctgcag cccctgtgc cattctccag gccccacgta cctctgctg
10561 ggcccgataa gacctggtca gatggccccc ggctgcaaag ctttcctggg ccccatcaga
10621 gaggacgccc aggtgaagcg agggtccccct gcccacccctg caagcgcagg gccccttcca
10681 agagtgcacg cctaggcccg tgtgtatgg tggagacgcg gtcccaagg gcttgaacca
10741 agaatggaga agacaaaggc tgtcttagg gagaaacttc cctgagggc tgatgtgtgc
10801 gatcccattt taatctcaca accctggga ggagctgggg cgggtctca ttgttcattt
10861 gaggacaccg aggctcaggg aacttagacg actttcctag ggtccccca acccccaccc
10921 gcccaggggcc ctctcccaagg caccctcat ccccacacag gctctctaa gctgttct
10981 tgtgttccag ccccccttggc tcagctctc aaatacaggg acaccccttc tctccccccg
11041 agaactcaag ggtctccatc cactgtgcca gcacagaggc ggtgctcaga gtggggctaa
11101 gcttaactgtc cagcctgtc ggccaggagg ggcagaaggg cccctctcag gattccttcg
11161 ctctgttccct gccaataggc catcaactcaa gggctaata gacaggacgt gtggagaaac
11221 gtggctgca gcacttctgg ggccaaaggc agggtggcg gcactgggg gtagcaggga
11281 gggacacta ctggggccag aggcttctag aagcttctgc aagaaggggc ccctcaccca
11341 tgtcttgcc aagaagtggg gaggtgggt gtggcaaagg aaacagctag gtcagagaca
11401 agagatgtc tgcaaagccc tgctggctcc ccacgggtgga gcacccatg catgttaggac
11461 ctgagagatg gcagggggcgg gtgcgtccct atggatgtat ctccattttc gggcagagac
11521 atctgggctc tcacctgcaaa ttgagccaaac caagaaatta tatttacttt ttagagcgag
11581 cctccaacaa attatacaag cacttgagaa taagccctcc cactgtctt agagatggag
11641 cccagggagg cagctggaaa gatgtcttg ccctcaactca ggagagatgg tggagctggg
11701 agaggaggag gcactccctg ggaccaggca gatggacttg actcagcaa tagatgcaac
11761 catatgtggg ggggtggggag gcccagaaag gcattacagg ccagtgttct taatcctggc
11821 tatacactgg aatccaccag tagccctaaa atataactgt gctggacttc ccctgggttcc
11881 acagtttgtc cagagtgggc agcatggagt ctgtaaactt aaacacacag gattgagaac
11941 catatgtctc ggctgttggt agccatgtat gggatacatg aaaaggaggat gcacaggatc
12001 cttctataacc acaggatagg tgctcattaa accctgttta aatggactgt gacccagctg
12061 gcactcaggc gcactcaggc gccagggtgg tcacactttt attttaatag gatttaatga
12121 gcacctattc tggacatgt gctaagatac agaggctctt gagatacaga gatgacaatg
12181 accttcagaa acactgaaca gagataagaa aggcacatgc tggccttcac tccaccatata
12241 attctccat ccatccatcc atccatctt ccatccatct ctctgtctat acttccatcc
12301 atccaccatc cattcaccat ccaccatca atccatccac ccacccatcc atccatccat
12361 ctcactatct gtcattccatc catccatcca ccacccatga atccatccat ccgtatatca
12421 atttctcatc tatctctcca tccatcccccc atccacctt tcttcatcc tccctccctc
12481 ctttcattcca tccattcatc atccatccctt ccacccatcc atctgcctgt ccacgggtt
12541 gattgtccat ctgtccagta ttcccttccattt ccctccaaac tgggtggcag tactctccac
12601 ctcactacccat caccatccctt attattccctt ccacccatcc tcttcacaa gggccttctg
12661 tcctgcctgt cccatccctt tctggacactt atccacatgg agtacatgg ctttgcataa
12721 caatcccaat cccagatgt gggaggaa gtgagccctt aactgcgtg atgtttccag
12781 ggagatgggt gatactgtc cattactaat ccagatgtt ggttttaatt tttctctcca
12841 gtagacccca attgtggtag gaaaaatg ccccaactt ggacacaaac agacccatggat
12901 tcaaatctg gttttgcacaa ttctgcctt aatgacttta ggcaactcc ttgaccttga
12961 ccccttggag actcagttt ctcacccatga aatggtcaat aatattattt acctccatcc
13021 atggccatga agctaaaaat agattattgt accccccaaa acaccgacac aatgttttaga
13081 aataaataat attattttaa gcttgaagt ctggctgggt tctcagccctc gtctacctgc
13141 tgggtgtgca gactcaaagc cagggccca ccctcataga ctgtcatctg tgggtgtggg

FIGURE 4 (cont.'d)

FIGURE 4 (cont.'d)

16501 tcaatagaaa cttggggtgc ttccatattt tagctatcat gaatattgct gccatcaaca
16561 tggtagttc ctgtattcaa ctcttgggt aataccaga agtgaatttgc ctgaataagt
16621 atggtaattc tcgtttaaat ttttgaggag ctgctgattc atactttac gtataaaata
16681 tttagaccta aatgtattat gtaaaaacac taagtattt taacattcta gagtaaagaa
16741 ggtgttctt agcaagacag aaaagctgaa accctcaata gaaaagcctt gttatgtta
16801 tcacataaaa tattcaaaa ttctgaacac acagacacac acgactaac gaaaagctat
16861 ttacaactt tgtagatga agaaaataatt tcttaacata gcaagaaccc aggcaaatga
16921 ttaagaaaaa gaataatcat acaaattta tacatgtgag aagctgtca gccttccc
16981 ttaattaaag aagtaaaaata taaaacaaaa catataattt ttcaacttagc agagatgaaa
17041 taccaaaaaca gatgggtata ggtgtggAAC atacttcctt ggttgcacgt tagccatat
17101 ctattaaaat cccttgccac agtaattca gttctagaca tttgtcttat attactgtat
17161 ttattctgtc ctgttaaccat aaattccaca gctgcctagt gatggttcta tatttaatg
17221 gaatgcttac ttcagtattt gtttttctt ttgagatgaa gtctgttctt gttgccaggc
17281 tggagtgcag tgccatgatc tcagctca gcaacctcca cctcccaggc tcaagtgatt
17341 ctccctgcctc agcctcccga gtagctagga ctacagggtt gcaccaccac gcccagctaa
17401 tttttgtatt tttagtagag atggagttt accttgggg ccagttatggg ctcgatctct
17461 tgacctcatg atctgcccac ttggcctcc caaagtgcgt tgattacagg tggagccac
17521 gacaccacgc cagtattttt tttttaaac cacagctct tcattttgag tcattctcaa
17581 atagctgaa ttactataa cttagggttt acaattttt aaattgtgt tggtaaggta
17641 tccacatgat gtttgatata cttctttga cataaaatata cacaatgaag tgattactac
17701 agccaaataa tgattaccat acccatcatt gctagcggtt agaaagacaa ctgattttta
17761 tgtgctgata ttgtaccctg caaccttact gaatttacta aatcttagtag tttttgggt
17821 catccttgg gattttctat taacagaatc atgccttcg caaatgtaa tagttagct
17881 gcttctttt aaatatgtat gcctttagt ttttttctt ggctatgttc ttttctctgg
17941 ctagaacttc tagtacaatg tccagtgtca gtgtgaaaa tgggcatcct tgggttgc
18001 ctgattttag gagtaaagct tacagttttt ctaccctga gtatgattt agttgtgaga
18061 tttccataa tgccctttat catgctaaga aagttccctt ttatttttagt ttgctgat
18121 tttaaaatta taaaaggcata tttatTTTt taaaataactt ttttctgtgt ctgttgagag
18181 tttggccatt ttttttctat taaaatgggtg tattatggta gctgattttt ggatgtgaaa
18241 ccaaccttgc gtccctggga taaatccat gtaatcatgg tgtataattc tttctatgt
18301 ttgctggatt tggttgctt gtagttt gggactttt gtgcccataa gataagaggt
18361 attgatctat gttttctt tcctgtgatg tctttattt gttttgtgt cagggaaata
18421 gtggcttcattt aaaaatgtca agaagtgtac ctccttcattt ttttgggg aagagtgtga
18481 aaaattggta ttatcaaattt ttttagtagaa ttcaccagg aagcattttt cttttcttt
18541 tggtagttt tgattactg attcatttc ttaattttt gtagtctat tcagattgtc
18601 tggtagttt tggtagttt tggtagttt gtagtctat gaaattttt catttcattt
18661 aaattatctt atttgtcattt gtaaattttt ttttgggtatt ctttataat ctttttttatt
18721 tcttaatgt cagtagtaat tttttttttt tttttttttt tttttttttt tgagttttct
18781 ctcccttttccctgatgaaa ctgaagttttt ttccattttt ttgattttt tcaaacgatc
18841 aaatttttcaatttattt gctgttatca ttatccctt ctttctgttt actttttttt
18901 agtttcatat tttttgtaaag tttttttttt tttttttttt tttttttttt tttttttttt
18961 tcttaataca agtgtttaca gctgtgtata ttactctaat tacttcttta gctgcattcac
19021 aattgttttgc tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt
19081 ttgattttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt
19141 atattttgttcaatttccaa tttttttttt tttttttttt tttttttttt tttttttttt
19201 taataacata ctttgcattt tttttttttt tttttttttt tttttttttt tttttttttt
19261 aatatgtggt ctatcttcttca gatgttcca tgctcaactt acatgaatgt atactttgtt
19321 gttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt
19381 aagtccttctt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt
19441 ttgtttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt
19501 gttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt
19561 cagttatataa ttcttaatgg atggattttt tttttttttt tttttttttt tttttttttt
19621 gtaacaattt ttgtttttttt tttttttttt tttttttttt tttttttttt tttttttttt
19681 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt
19741 aatcaaaaattt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt

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FIGURE 4 (cont.'d)

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19801 cctttgcctt ttgattgcat tgtttattcc attcacactg catattatta ttttagtgga
19861 tttatgtctg tcattttagt tctttttgt ttttgggg agacagaatc ttgcctgtc
19921 acccaggccg gagtgcaatc gctgcactc ggctcaatc aagctccaac tccccgggtc
19981 aggcattct cttgcctca gctccaaatc agctggact acaggtgccc accaccactc
20041 gtggtaatt tttgtattt ttagtgaga ctgggttca ccgtgttagc caagatggc
20101 tcgatctct gacctcgta tctgccacc tcggccccc aaagtgtgg gattacaggg
20161 atgagccacc gcacgccccg atttttgtt ttttatatgt atcatgtctt tgggtttct
20221 gttttgtctt tacttcttc tatttcattt aattaatatt ttctaatata gtatttaat
20281 tttttaata attttatcac tggattttta ttttttagtgg tttctcttagg attttctgt
20341 tatactttat cagtagatc ttcaattca cactagctt attccagtaa tatgttagaaa
20401 tggtaactcat gtagaactt attctcttc tctttgtgg ttatatttatt tatattat
20461 caattaatgt tacaaagata tacattgtt aaattattat tgggtctatt attagcatac
20521 ataacaccca catattaaa ttgtatataat tgcatatataat tattatagaa ttgtatata
20581 tatagggcca atagtatatt gtatacatgt tattttatatt aattttttt aaaatgagtt
20641 aagaaaaaaag aaaaatgcat ttctactgtc tattatagaa aaataattac atcatactga
20701 acgtcttcac cnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn
20761 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ncgcggatt
20821 cctaaaagaa ttgctgagac aaagttatgt tgccttgc atccgtggg cagttgtcat
20881 cctgtggagg tttaccattt gctctccac cagcaatgtt taagcatacc tgctcccaa
20941 cactccgccc aacacatatt atttggattt ttttcttggc tgataatggt atctcattgt
21001 agttttaaatt tggatatttc attgtgagag aaatgaagca tctttcatg ttttgagagc
21061 catctgtc tctttccca ttgttctgt taagtcatg atttgcagta ctgtatattt
21121 tggatgatgtt taaacatgag ctcttcttgc ctcttaacca tccttatcca gcctgtctt
21181 acgttccccc ttgcctaaaa acaagctcac tcaaacaatcatttcttgc gcccctctcc
21241 ttttggaaaata aatcagatgg gcaaaatttgc ttttggtagg ggcctgagac ccaaattgtt
21301 aaaagtagct tagctgttga gtggaaagga ggcccagttt ggggttgcac agaaaatgag
21361 gggcgtgggt aatagaggag gctggcagttt aacctggcag aaggcggcag aggccaagga
21421 aggtgcgtt gtgtccttgc gtggaaagga tggatgttgcact atcaactggg taaacacact
21481 gctatagctg ctccagcgac agcaggactt ctcagaaggg aactgagaaaa aggggaatgc
21541 cagtttctgc caaggatata tggaaaagtt tttttccca gtatgttctt tggcaaccc
21601 gttaaaatca ttggaaaatgg tggatgttgc aacaaagcca gccactaaaa gacttggatg
21661 tagcaaaaaca aattgtcaaa aagtattttt catttcttgc aataaaata aactgggatt
21721 taggttggg tagaaatcca gaggttgg tttttttttt gtagtggat tgccttataat tcctttcat
21781 gggaggattt ttacaagaat tttttttttt gtagtggat tgccttataat tcctttcat
21841 gactggagag tctgtcattt ggcaaccgc aaagaacttc aggaacagag ggcctaagtt
21901 ttcttgacac atttggattt ttgcattgtt aacatttgc cttttattttt taattgtcga
21961 gtcgtgtgt gtctgatctt atggagagga gagtgtaggt gtnntctctg gagcttagac
22021 ntgcggccgn gtcacacgtt gcccacactgc ctgctgtttt cangaaagag caggacggct
22081 ggtccctgtcc catctgttgc ggtccctgtcc catctgttgc aatctgttgc tcagagctcc
22141 taagaggggg ttgtctggc ttgttacac tggcttccag aatctgttgc tggaccatt
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22261 ttgtatagatt tctctcaggat ctatagcgc aacaaataaa gtcctttaaa attatatttct
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22381 gacagaagga gctcttctg ggagctgttgc agaccccaactt gatctcaactg gttttcttgc
22441 ttttatttggg agagtttgc ttgttgcgg tttatatttgc tgaaaataaa caataagtag
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22561 ttggggaggct tggatgaggat cggacatacc tgctgagatc atccgttgc tttttcataa
22621 gattggaaaat ggtggaaaat gacggaaaat gtagggcagat gatccaaacg ctgtttccca
22681 ttcccttcaatgaaaacttgcg aggccagaat ctcccccagcc ctggccagaac tcccttccctc
22741 ctgggtcccg ctgtcactgtt catgttgcctt tgacatctg ctacaatgttgc acacacatgg
22801 ggaaccacac agggaaatgttgc acacatgttgc tgacgtgtt gtagtggcttgc tggggctgt
22861 tccttgatcc aggctttgtt ttgttacgg gctctgcctt cctaccccttca ggccttgc
22921 ctcatcatgg gcatgcaagg atggaaatgttgc tttttttttt gacttggatt
22981 actttagttt tagtacttgc gttcagaactttaatttcccaatcagaaacc tgcctcccg
23041 acccaggaca ctgacccatgg tttccagat aagacccatc ctccctcccaa

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FIGURE 4 (cont.'d)

23101 cagggtttgc cttcccttca gaatacagga aagtacacgt ggttccaaga ggaccatgct
23161 cttaactaaga taaaagggag gaggttgact aggtacttgc ctctgctgcc atcccttgc
23221 ggaagggggc ttcccttcaat gcctcatcg ttccaggag tatgcttgac ccagcaacac
23281 agaggaagaa gtgacctcat agcaatgagg ggcaagcatg tggatattgc tggatatttc
23341 ttccctcaaag tctacctgg gacaggtgtat gaagacgc ttacttctgc aatacacccgt
23401 gatcaggc ttgtcttcat gacacattt agccttgct atgtgttgt aacagagctg
23461 gtcatcctca gaaataaaaag aagagagcaa taagtacagg aaggcttca gtcccagaat
23521 agtggtagga ctaaatgtca gagaacaggg ggactgttagg agtttggga ctttagcatg
23581 gataccctct caatctgctc ccctgtggta taaacagata agccattgt actaaaaggc
23641 cttgagtgct tgcgtctgg gcaggtggag ccagtgtatgg gtgcggcag aggaggatgc
23701 tggagagggg acagtgtcta aggcatgtgg agaaaaagga caatggctta tgcaagtca
23761 cctagaagat gcaagggatg tcacagcata gtgtccacag gcattccat atgtcttca
23821 ttttggca ggaagaatat tgacaaaggt agtgtatggg gggattttc aaggatgcta
23881 ttttcatgtg tccaagtaaa cttaaagattt ctaagaactt tgacctctaa tgctttaaa
23941 gaccgtgtac ctcatgccc tatgcacatt cagttagaaa ataaatgtat attcttgg
24001 gaattcgaag atgtgtcat gggatggcac agcgtgatct cagtgatcac atgaagcatg
24061 ctgatgagag cttcttggat ctttttctt caggtggact tgcattaaag tgctgttgaa
24121 tctctgact gggagtgggg gcagccatgc gatgggtgccc ttaatccgag tgccatctg
24181 gctctcttca ggctgttca tttgtgtga ggggttaggg gaggaggatg ttccaggca
24241 tggccttatac tggctgtgg gttgaccaag ggtcgggggtt cccaaagggtg gagttccagg
24301 atgagagtgc acccttgggg atggacttta gaaagaggtt ggacttaggg tcagccagg
24361 aatggtgggc caggggtggag ctcccttgc tcaaggatgtt agggccaagg gccatgcagg
24421 tggccctgca gaaggtgggt ggtgatatgg ctttctgtt gataacagac tctgtggcact
24481 gtttctgg ggctgttggg gttgaccaag gcagattttt actcaggctt actgtcttta
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24781 ccatgacctc ttgctgtact ttcttcaaa tctaaatttt ttttattt tttttaatt
24841 tacagttca agattagatc tggggggac attctgtgt ctacctcagc ccctgggttga
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24961 tggcaggca gtgaggtttt gtggactca gggagcatct ggcactatgt atgaggtgt
25021 gaggtggggag agagctctta aatctaccag ctttggat tttggactt aggagagat
25081 gctagggaaat ccagtgcac caggcctggc gcctcatatt tctttggcat ttgtatgata
25141 cttcttagta cttcgtttt tgacttat atgaactaac tcaatttata tgcttagaaa
25201 ataaacggcc actggacctg caagagatta gtgtgggt tccatagcct tagacatttc
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25321 tagaaggatc taatatgtt tactcgttgc gcagcggaa gcagcagaca tttcttaggt
25381 ttctccctgt caccatttgc gagacagtgc acacaatccc cttggctt acctgaacac
25441 tgaccacagg tctgtcatg caggctggg gtcctccgtc agcatcagct ccggctccgg
25501 tgcctccctt ctctcgact tctatcacgc catccagcca ggacatctgc aggttaacact
25561 ctgcttcaga tgcgtccatg atcagtgtgc agccagaaat aagcattatgt gtctgttagt
25621 tcttgaattt ccatttgc ttttgc ttttgc aaacagttgg cgagttttat
25681 gtgtggttt tgcaccaatgtt ttttgc ttttgc aaacagttgg atgtcttattc
25741 tcttttaaaa ttgtttttac ttttgc ttttgc ttttgc ttttgc ttttgc
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25981 taagaataacc aaagccagaa gaacactaaa gttctcaagg tccctcaatg atgtgggtga
26041 gaaggcgcag gatacttgc aaagtttgc ctatgtggaa agaacttggt ctgaaggggaa
26101 attaataactc cctcaagata cgttctgc aactaacagg ttttcatata aagaaaaaaag
26161 aaccctgaaac cacaaaccc tttggcaattt ctttgc ttttgc ttttgc
26221 cggtcgtca actgcctcag aggtggaaagc tggcaagggg ggcaggccgg gcctgctgc
26281 ggaagagaag gcccggatggtgg aggcacacgc cccgaaggccgg caactgctcc agtacctgtt
26341 ctcactctcg cacggcttgc ggcacacgc ctttgc ttttgc ttttgc

FIGURE 4 (cont.'d)

26401 cgctgctcgc ctgcacactg ccaagtccctc cagcgggctg gcagggagta tgggcttctg
26461 ctctgacgag atgggagacg acgatgtctt tgaggacagc acatctgcaa aactgaagag
26521 tagggttctg cgggcgcccc tctgctccac gaaaaaggac agcgcacctgg attgtccctc
26581 tcccttctct gaaaaattac ccccccatac tcccggttcc acgtcagggg atgtctgcag
26641 gttgggttgc caggaagtgc cattctagcc atctctgctc gcatcaggaa ctcctcttg
26701 cttagtatg tgaagttca ggaaaatgaa gtaataggaa gttgttaacca gttgtgggtt
26761 gatggtttc tccagaagaa tggagttatca atatcgttt aaaaacttaa tttttatgtat
26821 gtgagtttcca agatagttt acaaattgata aaagaggaag aagctggctg ggcgcagtgg
26881 ctcacgcctg taatcccagc actttggag gctgaggcgg gtggatcacc tgaggtcagg
26941 agttgagac cagctggcc aacgtggcga aaccccgctc ctactaaaaa tacaaaaatt
27001 agccgggctg ggtggcgggc gcctgtatac ccagctactc aggaggctga ggcaggagaa
27061 ttgcttgaac cccggaggcg gaggttgcag tgagccaaga ttgcgcatt gcactccagc
27121 ctggcaaca agagtgaac tctgtctaaa aaaaaacaaa acaaaaacaaa aaaaaaaaaaaga
27181 ggaagaagct acacatatta aaggccaagc tgactcttct aaactaaaaa taagtagact
27241 ttgcataaaag aaactggaag aaagaaaacta gtatcttcag ttttccagcc tgatggtcca
27301 gatTTTaaGC attgttgcatt ctcccagcct ctttttaac ctttgcctcc tacctacccc
27361 caaaagggtgt gtggggactg gctgttctcc agtagctct tccttccttc tttttaactg
27421 aggtgttagcc acctatgtcc catcttaact ctgtttcccc cctttatctt cccttgcga
27481 gcacccctgt ctggcctcca taattcactt ttgtcatga ctcttgcgc ctccctcattc
27541 tgacctttct ccagtctccg ctcccttagtgc ccagctgtca tcatttctaa catttggatc
27601 agagatcccc tcactaaaac agcctgagag cctggctcct tccaggacga gtgcggcaac
27661 ctgttctcta gctgctggaa aagaccctc tgtttcttaa aagcctgtta agttccttca
27721 ggcttagtagc tacaccttgt tgcatacttc ctggaaata gagagtgc ttcaaattat
27781 ttctcaactt ttgctattag tggcccaag aaaaagagat gaaattgcag catcttgtaa
27841 tggtgagttt tttaggtcta ggagagaggt actgtcatct ttgtttactt gctgagagac
27901 gacagaaaatg tggatgttg gggatgtgaag gtaaaagtgc tgattatagc taaaagcaa
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28021 agaaccgcgt gggagggcca agaccatccc gtgcgcggcg ggaaccgcga catccgcac
28081 tcggatgccc gctggagcgg gcggagaccc acgcgcgcgc caatgtcccg gcgcgcgggc
28141 tgctcaccca gggcagcggc gtatgcgcg ggggcacaag cccgagccgc cccggggcggc
28201 gcgcggagaa ggagcgcaga ccccgtaac acgcgcggagg accgtccgcg cggcccgctg
28261 cgccactgccc tactgccagg ggccgggggt gacgacaaaa ccctcggtgc gccgcgcctg
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28561 nnn
28621 gcaggcgggc ggagagcaga ccacgcggaa gaggccgaga gagaaagcgg ggcacccggc
28681 cgggggggtc attacaagg gacgtggc acgaaggagg ctggggcgaa gatgagttca
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28921 cagacgaccc agtacatgg atggcagcgt cctgaagggg gatgatcggt agggagttgg
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29101 tgagaccctg tttcaaaagg caccagggtt gtagggaaagg agcgtatatcc cccaggcaag
29161 gaaggctgcg gaggggccag gccaggagag aaggccctg agctcgtgg acggggcagg
29221 tgccctgtgga ggaaggggagg gacgttagcag caggaggaag ggtgaggacc caggctgggg
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29341 gcactggaaa gcaaaagcgtg ggtttgtata tgggaagaag accacatccc ctcttattctgt
29401 catcccaact cagaaccat ttggcccaa gtcaccaaaag cactcatagg aaccactttt
29461 cctgtgacac aagttaggtt ctcccaactt taacttccca aatgtacccc gaaagcctt
29521 gaaatccctg gaaatttaaa aaataatccc cttctattaa ctgatgccta taaaacatat
29581 tgactttcat taaatttgt tatgaaatca gggatgtgtc ccattgtaaa ataaatattgt
29641 ttggaaaatg tagggtggta tcccatctaa aaatcagacg aggctagaaa atttcaattt

FIGURE 4 (cont.'d)

29701 tatttgctaa ggttagcatca tggttggtaaa aatgcacatcat aaaataagac caagaggtaa
 29761 tacaaggcat gaagtcatgt ttccctcaaa aaaatgattt gttctgttgtt ccaaattaatt
 29821 tggaaaacat tgccaaactct tcagcagtgg ttctcaaaatg atagcttgcg tcagaatccc
 29881 ctggggccct tgctaaaatc tggatggcta cactccccgc ctagagtggg ttaaaactcag
 29941 tgcccactgg cagggaaactg aaacttggct gaagtcaccc aggaggcctt ccccgtaaaa
 30001 cctctggctg ggcacagctt ggtttcctcg ccgcgttttc tgtagtaattc tggcacgcag
 30061 ttccctcttag ccacctgtcg tacctggaaag gggggccagcc ctcctcagca ggcttgc
 30121 ctgccctgca cagcacaact gtggcgtaaa aaatggaaaaa gctggtagca gaaggaaaga
 30181 gcagggagac agagggttagg tgaacctcaa tggcctcatt aaagcaaatt gagaaagaga
 30241 gtttccttcc cagtggcg ggacagtgc gaaatgcggc ccgtcctggg agaagtaggg
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 30361 gtttggcaca ggagaaaagct gaagatgcag gagaaagcta ggtcactgccc cctaggccag
 30421 gtgatcaagg tggctgttac ctgcctgtgt ggccttggaaa aagcctggg ccctctctgg
 30481 cttgcagggt cttctttt acaaaaagccg gtcttcgaag ccctgaatat tccagttatc
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 30601 acttcttcct acatctgtgg cttcttctga gaactaccag accaccctg ttttcagagt
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 30721 cctccaaaga acagggggcaa gggaccaccc gggacccatg gtggcccaagc acaggaccc
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 30961 gagggtgtct gggggaggaa ggaggcagca aggctgaaag aagcttctct gggatttcca
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 31081 ctgtgtaaaa gccccccctt ccccaacaagg ggctggatcc aagtgaagaa ggtaccagaa
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 31201 tactgttatgc agccccatcac aaagccagcc acactgccc ggctgtgcca tggcaacttc
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 31381 tggcctccata ggagacccag ggtagccagg acaaaggaga gaagcatttg ctaagctaaag
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 31501 aggagagacc cccagtgctt cttgttatac ctagagttc cccctctgg ttgctcc
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 31621 ccaaggccctg tggccatca gccaggctct ccccaagccctc catcctctca ttctgtgt
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 31981 gcccctcaga tgcataaggc agcaggcata gattcataca cgtgatgggg cacttaagct
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 32101 acaccccatg tgccgcgatggaa gagaatggca tagtctttagt ggacagccac atcaaaat
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 32341 gcccctgggt cttccctttt cttacggat tgctaatccc atcaccggta cccca
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 32581 tgagctctga ggggcaacca ggtcaaggc tgaagatggg gcagtgattg agcaact
 32641 gtggagggc aacaggctat cttgttaatc tcagttttt gtgtggcaga gagagaaact
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 32821 tcccacaccc tggccctccca aggaaggccct ggggatttgc cataca
 32881 ctttagtaccc tggccctgcata ttctgttattt agcaagctt ggccttgggt ttcttatt
 32941 ttgtccctgtg cagtggat ttggaaaactt ctcctcagca ccaaacacgg agccatttag

FIGURE 4 (cont.'d)

33001 cagaaaatac atgagtttc aagtcaattt aactgttcat cgccccaaaa gccaggcaac
33061 acggtagagc agctggatct ctgttctgt aagctttctc agggactggc ccaccgagtg
33121 ggggactgca agtgcccgat gagtgaatga atgaacacat gtgtgaatgg aattcaaggc
33181 actgcaggct attctggagg gtactggct gtctcttgc caggtgaggt gcagtagaac
33241 agcatcccgt atagatgcca gtttctgacc tgggtctgaa aagccagtca cttcacctcg
33301 cagagctgcc tggagggggc ggggggtgtg aggacccctg agagcttggt gtgaaggggc
33361 tctgcagagg gaggcatggc tagtgtgcgc aaggtgaccc ctctccttggt ctgcaggatg
33421 gagaacctgt tcatcaaccg cttcatgcac atgttccagt cttcttggaa tgacttcggc
33481 gactttgaga aaatctttgt caagatcagc aacactatcc ttgggtgatgt tgccctctgg
33541 ggcccaagtg gtgctggggc cagggatgc tgctctccgt tctgatactt gcccggaaat
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33661 acagcccccc ctacactcca cacctttac catcaactgtg gtcacccttg tgcccagagg
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33781 tcaaaagtat cagaactttt tcttggcaca aatcaatcat ttgtgttctt gaacagagca
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34141 ctcaggtatg atgagttggt gcccacccct gacccaggatgta tggggcagggg gcagcagttg
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34681 cagactgtct tggcaacat cagaggagga attgcggggc atgtttctcc atgatgtctcg
34741 agtctggaa cataatgtca atatttcac tatcgtatc aataattaca ggagctaccc
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34861 agttgtcacc cacccatggca aggggagaac actggagaaa gaagcagacc ttgtgtgaca
34921 atacacaagg ggcacgagga gaacccaaca gaatgggtga ttttctcgat agaaatgtcg
34981 ctgcccattgc tccctgtcgca ccctctccccc caccctcacc tgcaactca gctgcctccg
35041 gctgcaaggc tgaccttagt ttgagacaga agaagttcaa accaactcca cctggatctg
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36241 tttacccatcc accagcttag caaacaccac ccactccctt gcaaaaaagac cttgtttcc

FIGURE 4 (cont.'d)

36301 aatgctccc gcagatgtct taggccatcc tcgggcctca ctgattctgt gagccagtgc
36361 ccacggccag gagaatggaa tacactgacc tagaggggac agggactcta gacaggcaaa
36421 aactccactg tcagaagcag aatctaaaaa tgtcagaact gaaaggtagg cccgccccctc
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36541 ccaaatctca ggcctcctat tcccagtatc accttcacca gcctgggtgg tctcaagatt
36601 ggatttagcag ccattccttc tggtagatg ctgatggtca cttagctct caaagttccag
36661 ctatccagcc atagtcctag aaggaagac atcaactgtgc cgcaccaacc caagggtctc
36721 cacctgcccc cctcaacaca aggtgcctg agtgcctcg cggggatagt ccccgcccc
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37201 gcacgctcgt tgcgtgtcga ggtgttgtga ctcttacagc aaagggcacg gatccgcggg
37261 tcagcaagcc cgacgaattt acaccaatga cccgcgtgt cgccagctc agaccaggc
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37681 nnn
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37801 taattcaagt tggattaaag acttacatgt cagacctaaa accataaaat ctttagaaga
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38041 ttttgcacct actcatctga caaagggtca atatccagaa tctacaatga actcaaacaa
38101 attacaagg aaaaaacaaa caacccatc aaaaagttagg caaaggatata gacagacac
38161 ttctcaaaaag aagacattt tgacccaaa aaacacatga aaaaatgtc atcatcactg
38221 gccatcagag aaatgcaat caaaaccaca gtgagatgcc attcacacc agttagaatg
38281 gcgatcatta aaaagtccagg aaacaacagg tgctggagag gatgtggaga aataggaaca
38341 ctttacact gttggggc ctgtaaacta gttcaaccat tggaaatgtc agtggca
38401 ttccctcaagg atctagaact agaaatacca ttgcacccagg caatcccatt actgggtata
38461 tacccaaagg actataaaatc atgcgtctat aaagacacat gcacacgtag gtttattgtg
38521 gcaactattcc caagagcaaa gacttggac caacccaaat ttccaacaat gatagactgg
38581 attaagaaaa tgtggccat atacaccatg gaatactatg cagccataaa aaatgtatg
38641 ttcatgtcct ttgtgggac atggatgaag ctggaaacta tcattctcag caaactattg
38701 caaggacaaa aaaccaaaca cctcatgttc tcactcatag gtgggatgt aacaatgaga
38761 acacatggac acaggaaggg gaacatcaca cactgggcac tgggtgggg tggggggctg
38821 ggggagggat agcatttaga gatataccta atgctaaatg acgagttat ggtgcagca
38881 caccaacatg gcacatgtat acatatgtaa ctgcacccgtca cgttgcac atgtacccta
38941 aaacttaaag tataataata aaaaaaaaata aaaaaaaaata gaaaatgtaa
39001 aaaatcatgt catttgcagc aacatggatt tggctagagg actttatcct aggcaaaacaa
39061 atacagaaac agaaaatcaa ataccacata ttctcactca taagggggag gtaaacactg
39121 ggtactgtg gacataaaga tagcaacaat agacactggg gactattggg gtggtaagg
39181 agggaaaggga gaaagtgtg aaaaactgtt ggtactatt ctcagttatc ggttaatggg
39241 accattcata ccccaaacct caacatcaca caatataccc aggttacaaa cttgcacaaag
39301 tggccctctga atctaaaata aaagttggaa aagcaaaaat aaaacagtaa acaacaacaa
39361 caacaaaaca gcaaaaacct caataaatac ataaataaaa atataaataa atgtcttgc
39421 cagagctttt tggggggat gtttttttgc gtttttttgc ggggtcacgt tgcttttaag
39481 ctgtttgcta tcaactgcatt cctatctaat atttctttt cttaatagta aaccactcaa
39541 tttttgtgag gagatattac attgtggtt tgatttacat ttctctaat atttcccttc

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FIGURE 4 (cont.'d)

39601 cagtttggat gctgagcatt ttttcttatg tttttgccca attcatatat aattttaaaa
39661 gaaatgtcta ttccaaatcct tttgcatttaaaatcata ttatTTTAA atattgtgtt
39721 gtagaaatta tttatataatt ctggatatta actctttatc agatataaa ttactaata
39781 ttttcttcca tccacaagtt ttttaaca ttgttatgtc cttaatgca taaaagttt
39841 aaaaagttt atgtgtccc aattgtctat ttttcttt gttgtctgtc ctttgggtgt
39901 catattaaaa aataattgcc atatcccctt attctaagag tttatagt ttagatcttc
39961 catttaagtt taaaatccat tttgagttaa ttcttgata tggcataaga caaagttca
40021 acttcactct ttcatgtgt gatatccaag tttccaaaca ctgttgggt aagagaatgt
40081 tcttccctca ttgagcggat ctggaatgt gtaaatatta tttgaccata tatgtggagt
40141 tttcttttaa tgggttctt attctattcc attggtctat atgtctctt ttaagccagt
40201 gtcatgtgt tttaattact gtagtcttgt aacatgttt gagatcacgg agcatgagac
40261 cttcaactca gttagtttc aagattgtct agtcagagta tataatgata tttagataaa
40321 ttttcttctt tttcaaaaa atgcagctt gattttgata gggattacat ataatttgt
40381 gactgctttg gggtctattt acttttcaaa ttaatacata atgttgtaca gatttgggaa
40441 atacatctga tattttggag atcttaacat taaatctcc aatccatgaa tccaatgtc
40501 ttacatatta ttttgactt cttcagttc tggtttgtat tttttagtgt acaaggccctt
40561 tatttccctg gctaagttt ttcctaagta ttttactatt tttgatggta ttgtatattaa
40621 attattttct taattacattt tggattttt atagtttaa tataaaaaagg caactgattt
40681 ttgtgtgtcg attttggatc ctgcaacttt ccagaatttt ttaatagt tcaacacgat
40741 tctggatattt atgcataat gcatctaaca gttttctaga tttttagcag gagtcttagga
40801 ttttatgcattt ataggatcaa gtcatctgtg agcagagata attttacttt tttcttttat
40861 tctttggatg tctttcttg cttaaattttt ttttcttaat tggctgtcgtt gaaaattcaa
40921 atactatattt gaatagaagc gaagagacag agtataactt tcttggtttcaatccagaag
40981 aaaagtttga atcttttacc attgatgtt gttttttttt atatatggcc
41041 ttattatgtt tttttctt ctttcttag ttttcttagt ttttcttagt ttttcttagt
41101 taaattttgt taaacattttt ttcttcttagt ttttcttagt ttttcttagt
41161 ttcttattact atagttgtt ttttcttagt ttttcttagt ttttcttagt
41221 atgaaatctt attctgtcat ttttcttagt ttttcttagt ttttcttagt
41281 catttgcctc ctgggttcaa gggattctcc ttttcttagt ttttcttagt
41341 aggcatgagc cagcacaccc ttttcttagt ttttcttagt ttttcttagt
41401 caacctgtatc atcacaatata ttttcttagt ttttcttagt ttttcttagt
41461 ctttggatattt agggtaatac ttttcttagt ttttcttagt ttttcttagt
41521 ttttggatattt tgacttttag ttttcttagt ttttcttagt ttttcttagt
41581 tccggttctg ggctgttgg ttttcttagt ttttcttagt ttttcttagt
41641 tataagttctg ttctttttt ttttcttagt ttttcttagt ttttcttagt
41701 tagaaatatta tgcacttcta aacattttttt ttttcttagt ttttcttagt
41761 attttcttat aatccttttgc ttttcttagt ttttcttagt ttttcttagt
41821 tgatttattt gttgaatctt ttttcttagt ttttcttagt ttttcttagt
41881 tgggttttc aaaaaccacc ttttcttagt ttttcttagt ttttcttagt
41941 atatttcttattt ttttcttagt ttttcttagt ttttcttagt ttttcttagt
42001 ggggttagtt ttttcttctt ttttcttagt ttttcttagt ttttcttagt
42061 aactttcttcc tacttctttt ttttcttagt ttttcttagt ttttcttagt
42121 tgcccgagct ggtctcaaat ttttcttagt ttttcttagt ttttcttagt
42181 tgctgggatt gcagggatc cccaccatgc ttttcttagt ttttcttagt
42241 tattttatagc tataaaatttgc ttttcttagt ttttcttagt ttttcttagt
42301 acattgtatt ttttcttcc ttttcttagt ttttcttagt ttttcttagt
42361 ttttgcacca ttgttggat ttttcttagt ttttcttagt ttttcttagt
42421 ttttcttctt ctgtactga ttttcttagt ttttcttagt ttttcttagt
42481 tataatttca atcttttaaa ttttcttagt ttttcttagt ttttcttagt
42541 ctttggaaat attccatgtt ttttcttagt ttttcttagt ttttcttagt
42601 gttctgcaca ttgttggat ttttcttagt ttttcttagt ttttcttagt
42661 gattttctgtt ctgttggat ttttcttagt ttttcttagt ttttcttagt
42721 tattatgtgt ttttcttagt ttttcttagt ttttcttagt ttttcttagt
42781 tctggatattt gaggatata ttttcttagt ttttcttagt ttttcttagt
42841 gttatataat atccattttt ttttcttagt ttttcttagt ttttcttagt

FIGURE 4 (cont.'d)

42901 gatagtagta tagtcacttc tgcttgctt tatttaccat ttgcacatggca ttacttttc
42961 cttttttca ttttaagcat atttgttct tagacctaaa tgacaggata aagttggatc
43021 ctttttacaa atccattttc cagtctatat ctttgattc aggagttaa ccatttaca
43081 tttaaagtaa ttactgatag ggaaggacct acacttgcca ttttgttgc tcctgtatgt
43141 ttgttaaatt ttgtttttc ttccctctct tactgaccc tcattgggtt tgtcgatttt
43201 ttttgtggt gacatttga ttcccttct gttcccttt gtgtgttattc tatagatttt
43261 ttatggta ccataagaat tataaaaaac atcttaaagt gtaacaagc tattttaaac
43321 tgtaaagaga ataacttcga ctgtgtacaa aaactatttc ttcaaagctc ctaccctcac
43381 cttaggttac ttatgtcaca agttacatct tcataatgtaa tgatttacatt aacacagtt
43441 tatagttatt ttaagctt tgcattgtaa attctatata agaattaaaaa gtgcatttat
43501 gtacaaaaac tgcatagtagtac agtctctata tatgtccata tatttatctt tactggagag
43561 ctttatattt tcataagact tcatgttact atttagcatc ctttgcattt aacttgcag
43621 atactacage aggtccagtg gtaatgaact cccagttt tggttcatct ggaaaggctg
43681 attttcctt tatgtttgaa ggatggttt gctggatata atattttgg ttgaaatttt
43741 cttttcttc agctttga atatattatc cccctgcctt ctggcctgca aggttctgt
43801 tgataaaatcc actgataatt ttataaaggc ttccctttac atgacaagtt actttcttt
43861 gtcgtttca agattgtc tc ttgtcttg acttttgaga gtttgattat agtgtgtctc
43921 actgtgagtc tctgggttt cttaacatt tttttttgt tcataatctc tgatgtgaa
43981 tcccttaac ttatattt gtgaaatgtt ttttcttcat ttccagaagg tatttttagt
44041 gagtgtaaaa ttctacattt acagttttt ttttcagta ctgttagt tttctctact
44101 gtcctcttgc ttgtactgat tttatagaaa ctctgtgtaa atcttatact ttgtgtctt
44161 gtacttaatg tgcctttta ctctgcctgt ttttaagatt ttattttat tattgatttt
44221 gatcatgtgg ctgggtgtga gtttcttcat atttattgtg ctgggggttc attgagctt
44281 ttaagtctgt aggttataat ttatcatttac atttagaaaa attgtagcca ttattcattc
44341 aaattttttt ctgttcttcc cccatttctc atgcccattt ggggtctaatt tatatgtata
44401 ttaggttatt tgaggttgc ttacagctca cttacagttc ttatgtttat tttccactt
44461 ctatttcatt tggcagggtt tattatactt tcccttaatt tgtaattttt ttgtcaatgt
44521 ctaatccact gtaatctca tccaatgtat tattatctt agacattgtt gtttcatct
44581 ctagaaatgt ttcatctttt tataatcttct ttgtctctat tgatatgtct aagtctttt
44641 tctagcttct tgagcatatg aaatatagtt atgacaacta ttatgttttta ttacaactt
44701 taccttagt tcagaggta atgtgcaggt ttgttatgtt ggttaactcg tgacacagga
44761 gtttggttat tatttcatca ctcaatgtat aagcttagta ccaaatagtt gttttctgt
44821 tccctccct tctcttaccc tccaacttca agtagggcccc agtgttttta gttctctct
44881 ttgtatcaacttattttaa tgcattctact agttcttta ttttgcattt tc ttctgagtt
44941 attttatattt tctcaactatg gccatatttct cctacttct tgaatatctg gtatgc当地
45001 tataccttagt atggatatta tatcaagacc ctgtcgcaat atggataacct aaaagaaaaat
45061 aacaatgtt accagtttgc tctaagcctt tcttagctct tttgcttgc ttctcaagaac
45121 aagcacagag ggtggagctc aaccaagact gaagttaaag atgtgaaaag attgagatgg
45181 gaagtaattt agttggaggag ctctgataca atggatatttctt ttttttaat catgtaaat
45241 gcaagcccaa gataatatgt tggaaagtt gaaggcgaat gtcttgagaa atatgaaatg
45301 caccaaggc tatggctggg tgatagaaat aactaaaaag tttaaaagg attttttat
45361 agctggctt tgctgagggtt agggatagg cctggaaaaa ttgagcagt gatattggccca
45421 ggcaggactc ctcatgacat tctccagatc cctaagttt tccaaatctc caagcatttc
45481 cttggccagc aagtcatctc gcagcacaga tcctactctc tttcagtcg tcattccaca
45541 actctacaaa gcattttctt ccatcaatg ggaactttt ggggtctgca taattttca
45601 gggttccacc acttttgact ctttctggat accttgcattt gatattataa ctcttaatt
45661 catgtccttgc attttcttctt ttaacttttta atactgttca ttgcctgtt acctcttca
45721 ccctcttctt ttcacttccg ccctcttcttct tttgttgc tataatcatc cttttttct
45781 tcctcgaatc tcagttctcg ggagtaacat atacaattca ttcttacttc cagttttta
45841 ttctctaaggc ctttatcttctt agttcttgcg catattgtg gcaattatta gttttttcc
45901 aaaaatcoat tctccctttt tcctgtacat gtatcttcc agcttgacca catttcccg
45961 cttccctggc agcttaggtga agcaatgtaa ctaaaactttt gctgtaaaaa tatgagcaga
46021 agttatgtgc acaatatctg ctcacttgc taaaataaaaa ttgttattt tgagcttct
46081 atattgtccc ttttacaac taaaatgttag aggtttaggc aactttatg gtaaagagaaa
46141 tcatcacgta ggagatcaag aatcatttgcg ttgagaggaa cctaaatctt ttaatgactt

FIGURE 4 (cont.'d)

46201 agtggagcaa gactgccca tcagtctgga agctaccca caacttatgt atatcttcag
46261 attgttgcgc aaaagagaaa aaatgaagcc actatatatt tagtctctt catgttaaca
46321 gtttagctt taacctaaca cacattatt cctgaatggc agcatattat taacatcaca
46381 ggaaggaaat tccttggca tggatctttt attttggta aataaaggta atctgcttgg
46441 gcttaatact gccaaggcag aatttttgg aataattatt tctatagatg acccattcat
46501 aatgacaact aacatggtt ctAAAatggc ttcatgtacg tcacatctt tagtcccgc
46561 aaaaattctg aaggttaggt taattattcc cattctataat attggaaaaat tgggattcag
46621 agagactacg gacttataca agtttctgca gctatTTAAG aaacagagta aagtctcaaa
46681 gccattaatg aactgtttag tttagtgcg cttagtaaaa ttagaactgt ttgaagtgcg
46741 tttaatagt aaaccatcg atatttagtc agctctctgc ttgctaacta atatggaga
46801 aaaaacatac atctacgtac atccgtaaat gggagaaggaa aaaaataa ttgccaatcc
46861 ccttcctgtt attaggtact gtgataaggc gataaggctt ttcattatta taaatgagtc
46921 ctggagaggt taagcgcagt caccAAAGT cacatgacca gtaacTTCA gagattttac
46981 cccaggctcg gaaagactct gaagccccatg ttatTCCTCAG cagagcctgg tggagaaccc
47041 ctgaatggc cagagactca gcagacagag tggcctttc cttccaggaa gtcaggaaag
47101 gtttggtagg ggagatagag tttagatctgg gttggatttg gatggaaatga gatcaaggag
47161 ggataaataa gatccaagct gtttatgggg gacaggggaa ggccagctt gttagaaaga
47221 gtgggttata cagagaagca tggaaacatt tgctccatgc ctcgccttcc atggatagca
47281 gtccagaaat gctacttgc tgcctgacag tttttctca gtcggcagggt gtggacacgt
47341 tctgagcacc tgagccctggg tctggccctg cccagattct gtgagctggg acagagaatg
47401 tgtcctgctg tccctcctcc cccacttggg cccacacccct ttttacaca ttggatTTAG
47461 aaatctgaat tggcctttct gtgaacccccca atgacaggca agtccccagt aaagaagcac
47521 ttaatttaat tgctccctca gggtccactt agagtaatag ttgtgaacag ctctccctag
47581 tgtctccac aggcagtgtac aaatgttgc aaagataatg cacaattct tggcaaggcc
47641 atctaaata tgggaaggaa accttgc tgcctgaaca gtcctgtca gactgatTT
47701 atcacagggtt gcacactgccc tcaatgtcac catgtttcta ccctcagggt tgctggcag
47761 agagaggaca gctatacata aagtctgttc actctacaaa ggtgaaatca ttttttttaa
47821 ggttaattatg attgttctga ggatgggtat tgagtgcacat ttaaaaaatg ggaaaaggTC
47881 tactcataac tctgtctgtc taatttgc ttataaaaga cttaatgggtt ttgttgagt
47941 tgatccagag tcagtaacat ttgaatatgt gtttattacca ttgtatcgt aacaaaacaa
48001 caggtaagt gggatgcca atgtggctga gagtttaggg ttacattcc acacccccc
48061 cttaataacg tttgtataaa ttattgggtt attttctt ttcattggctt ttctttgaca
48121 ttgtatgggg ctggattttt ggaggcaacc aacaaattac acagcaatga attctggact
48181 gtagtcccac agccttgcgc ctagatacta gctgtgtcac taatactctg tggaccagg
48241 gtaagttatt tagatacatt tatgacttcc caaatcaata ggtggacaa agttatctc
48301 aaaatgtctt tcagatttgc ccctgaacat atgcgattct ggcattttt gatTTTATG
48361 ttctgttct tgaagcatgt ctacaataga aatgcctacc ttcatataca ataaaaggac
48421 attagattaa tatgggtgtc gtggaaatca ttgaacagct ttagagataa aaataatgaa
48481 atgagtcaag ttctccatTA ttaattaaat cttttaaatt ttctgtttt gaaactatga
48541 acaataaaatt ggaacaaaga tataatctca ctacaagtaa attgtatTT atgtaaaata
48601 taatttgc ttagaaataa ctcaatgaaa ttacctttt aatttcagag attttgagga
48661 ctattattgt tatttctta aagtgataaa tgaatccaa gatgcctttt ttcccccttc
48721 agaagcttgc gtggccaaagg gtttgataaa tggaaaat aaccgtgtt cgaatatcct
48781 gttggcctgc tggtagatg tcacatgtttt gtcgtatgc agtatgtttt taaaacttgc
48841 atttattacc tgaatttgc ttattttgc tcataaccctt agtaataactc ttgtatgt
48901 ggctgagaat tgaagcaaaat gccctatgaa actcaaggaa gcaaggctt tggatTTTT
48961 cagaagaaat gactggctga ggctgtaaag aaatcttgc gtcattctca tggaaagagg
49021 attggagcccc cgattcttgc atctcattat tgaccaggatg attgagaaga ctgtccctc
49081 gtccccaccc aatcacaata agtgggtat tacctgaggg ctaatttgc cttgtatgt
49141 gaatacattt gtggaaattt ctttgtgtc agcacctgtt caaaacatcc atttgtattt
49201 cagagcttattt gttttctaa tctcattgtg gagctaagag agagattgtt tttaaggTTT
49261 ctttcgtat aggttttgc gtcaggaa ggatgcgtga cagactctgc acactgctgc
49321 ttggtaggtg ttcaatgtat gatgcgtttt ccatctccca ggtacagctg cagctgtgt
49381 gactctggtg cggttgcata atgcactgtg gagtgcacca tgatttgcatg atggctggag
49441 aaatctgttgc gctagaattt tagggaggag gacatgtgc ggaagtgcag aaacccatcaca

FIGURE 4 (cont.'d)

FIGURE 4 (cont.'d)

52801 ctgtgccctc tcccatgggg gcctgtctgc agcaggagag tgtgatgcca acacaggtga
52861 aagagacaga aagagggagc cagtgtcat gcaccctggg gcattgctt agtccctgga
52921 tccatttcg gctgaggccc ccgaccctct attgtgtcca ggtatttgag ataaggcatg
52981 tcttgtccag ctgcagctgg tttgagttgg gttttgtcat ttgcagccca aacagtgtct
53041 caacttcagt ggtcatctgg cctggtaact aatgggctgg ggaaaggagg aaggttgggg
53101 caagggccca tttgagatgc caagcttggt aaggctacag agggctaaaa acgaggtggg
53161 gtgtacactg agggatgca gggctggca gggctggag tccccatgc aggagacagt
53221 ggggtggag ggttggacc cggaaagcag agtgcgtggg aggtccaggt cagggtggca
53281 ggggtgtggc agattaagag gcagacacag ttccctggt cgttaggaggt cagggggcca
53341 taaggagtgt ttccagagg gggcttaca cccaggtccc agaggtggg agaggggagg
53401 ggtgggagga ggggaccagg agccatcagt gagaaggaag acctgtggt ggcctggag
53461 gagtgctctt ggctgaatgg cacggctgg agacatcagg aggtgcgtgg agccagtgt
53521 ctgagcagac tccagcctc acccttccag gcctctgaa agggtgtcta gatctcagat
53581 agggagtgaa ggcggccagg ctggcttcc ccaggcaaca agtagggtag gagggcaccc
53641 acctgtcaa agaggccaca ctcgcagatg agtgcgtcac gggcttggt gttgattgca
53701 atggtaatc tcacgtgtgc caccagcagc tggggagggg agaggaggag gcctcagagg
53761 gggcccagtc aggtgacctg gtgcctcagg gacccgcagc tccccaccc aggctgccc
53821 tataggatga tgctggcgc agggaggaag tgaaggctgg gtgcgtatct ttctgctgaa
53881 taagtgtgg aggcctgcac ccctctgtat cttactaagc atgataatga ttcagaggg
53941 cctggccagc acttgtacaa tgcttacctc tttgtccctt gaggtaactg tcttaatctg
54001 accatcatc tttttagcat gcagtccaccc cagcagccaa tgctgttagg attcgagaac
54121 agggacggag agtgcgtggca gggggggccca tcagcatcag ccggatca ccatgaactc
54181 atttgcctt tccaactcta ctggctggcc agcgaggccc gtgtgtcagg cccatgcccc
54241 agccgcgtgt cctggggAAC agcaggctcc tagtgtttt cttcctttag gggcattact
54301 gactctgaga acatcttcc agggctccct ttctgcccacc cactccccc cacaggtccc
54361 cctgtggat gtgcgtgatc cttcccaactc cccatctcag atgcctccc atagcagg
54421 gggcggttagc tggctgtacc ttgaaaatgg ggtgcacagc aggcaactg cggtagat
54481 caatgcaccc aacctcagac accagatgtt ttgcacaaag gtgggtgatg gtctggatg
54541 cgtggaaagtc actggAACgc acccaggatTT tggccaaaAG ccagtcgtat ttgcacatcc
54601 aaggaggaa aatagggtt tcatctcccg ggattttggt gagctgatac attggggaa
54661 aggaaacaca ctgttatatt tcacttcaga gtatagttt tggagaactt cgcctttgg
54721 gaagttccag aagtatctga atttcttaa cagtgcattt ggaatcagaa gaggctggag
54781 gggtaaagg gcccgtggt ggtatTTCT gtcccagcca tattacttac aacctgcatt
54841 actctggat acacactggg ctttcttca tcggcttca gcatctgtca tggggaca
54901 gtgcgtgtc ggctcacagt tactcaggag ctggcagat ggaaggagcg ggcaggccga
54961 aggcccagca gcggagggggg aggatgcgtg tccccctttt ccctcttgc cctgcctt
55021 ctctactgc ctctcttttgc tctctcatac ttctcttccct ctctcttcc ctgaaatgt
55081 ggagctcccc agggctgtcc atggctgtcc tgcgtttttt tcttgccttca agtcgttcc
55141 tcctgtttaa aggcttgggg ccctcttggt actgacccctt ccagatcagg gtctgcagct
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55261 gtctccctt tccagtttcc actccacact gggacaaggat gagttttttt cttttccaaa
55321 atgcaaatca ttttgcgttta actgccttcc caatcaccc ttaatgcacaaa
55381 ccccaagtc tgggtgacc tgggtgttca tgcctctgtt cacacagccct cactttcg
55441 ccccccacacc agcaccaccc cccaggatccc tccatgcaccc cagccctgca cgttgc
55501 ttatttgcagg cccaggatccc ctttcacacttgc cgcacgttgc ttctcactggg
55561 aggtgcgtgc attgccttcc ttttgcgttta gacatggggt attggagggg ttgacagaaa
55621 gaatggatgtt ggtggcagggg ctgcacccaa gaggccag gaggccat ggcaggactt
55681 taggtgcgtgg gaaagaccat gtttgcgttca gcacgttgc catggctggg
55741 ttttgcgttca gacacagatgtt gtttgcgttca tataatgtt gtttgcgttca
55801 ggcgttctcc cttgcacccaa gtttgcgttca atagacatattt aatgttcc
55861 attgttatata ttccatgttca catattataaaataaa gaaacaggatg
55921 gaataatata attttatTTT acccaatata tccatgttca atcatgaaacc
55981 aatctaaaac tattaaatgtt gatatttgcac attccccacc
56041 aatcaggatgtt gtttgcgttca gtttgcgttca gtttgcgttca gtttgcgttca

FIGURE 4 (cont.'d)

FIGURE 4 (cont.'d)

59401 ccagataaaag aaaaatgtgat acatgtactc caaggaatac tacatagcca taaaaaaagaa
59461 tgaaatcgta ttctttgcag caacatggat gcagcttagg attggcaattt aagccataat
59521 cttaaatgtaa ttaaccaga aacagaaaaat cgaataactgc atgttcttat ttataagtgg
59581 gagctaagca ttgtgtacac atgggcataa aagtgggaaac aaaagacact ggggactcca
59641 ggaaggggag ggagggagga aagggttcaa aaactgggtt ttgggtacta tgctcagtat
59701 ttgagtgtat ggttcaataa aagcctaacc ccagcattat gcaatataac catgtaacaa
59761 acctgcacat gtacatgtaa cttaaatttt atatattaaa aaaaaaaaaa ctgttctgac
59821 cagtaaaaaa agagctgaat gaggatgggc ccagtcttgc gcctattca gcccattcact
59881 ctcccttcg cttcttca cctcccgcc tcacccggcc tcacccgtcc atctccttga
59941 gctcttgta cactgagctg ggcctcccc accccatct tcacatcctc ccactcctgt
60001 ccaggatttt ggccctgccc gggatggcag aactgcctt gagaatttt tggttctttaa
60061 atttgggtttt tggttaaggg agtagctttt cggttctgtat tagaaaaagaa tatgtgctta
60121 tcgtaaaaaa aatctgatgat catgacaggg gggctgaga aagaaaaacat catctcatct
60181 tccagcgccc aggataacc accaaattctt ggggacgctc ctttcatagg tctttgcatg
60241 tgtgcacatt tatctgttca atttttccatc aactgaatattt gattataatc aacatctgtc
60301 tctttgtttt gtcacactgtt ccccaactgg gccatcaactg tggttcttacc tggtgacact
60361 gcgtccctgtt gtccttgc tggcacatgtt ggcctgttc atccttgcatt tcattttaca
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60481 tgtatcctt atcgggtccctt tgggtctt tttccactt ttaactcattt gttggagaccc
60541 ctccagggtca gctggaaaggg aaccaaaagca ttcctttcaaa agacgcctca acattttatg
60601 gtgaggacat ggaaggggctc actcactcaa tcctcttctg ccttcagact gttttcaatt
60661 tttttccca tcacaaacta tgctctgtt gctacccaca cacatttgc ttttcattc
60721 tgctgagttt ctgcttagcga aggctgagcc ttgggggttt gggatgttt tggagtagac
60781 agtgcctgcc ctactgttcc tcagacagtt tcactctctt ggtgcacacc tggtcagtg
60841 tactggctgt cagaacactt aaacaataaa gtcccttcca gtgctcctcc aatttagac
60901 gggcaggggc ctctctttag ggcactgttag ccccccaggg ccccaacagg gcatggaaat
60961 gaaggaaaaat cccgagttcc ttgaaggaa gttccagggca cctagcttgc cctgagaaat
61021 aaatgagcaaa ctgcacaaac aagagggtaa cagcagccca aaacaacaggc caaggaagcc
61081 agagtctgg gctgtttggt tccctcttgc aactaaagag aacccttgcgaa catgtgtctc
61141 tgagtgtttt ttccagaaacc cagaccccca ccaaaccat ccactggcac agagacctca
61201 gataagacgg aactgaggac tgaactctga gcaggcttt tggttctttaat ttcttcctgg
61261 ggggccttggg ggaagttcccg cccacaagcc acagcttaca ttcccttctg gtaacccaaa
61321 tttttaaatg aaacttctctt tccttaacca atttcaaaac aacaaatttt tgaatctacc
61381 tatgacctgg aagcccaccc ccacttcaag atatcccggc cttttagggcc aaaaccaatg
61441 tgtaccctcc atgtattgtat taatgatttt ggcctgtttaac ttctgcattt cctgaaattc
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61561 ctgccccattt ctccctttttt ggtcccccgcataaaatgcct tgggttctcg tagattat
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61681 cacaactgtc ctgcacccgc cagcctcaac cccaggaccc tctgaccggcc cactgcaaca
61741 tgcacccgtt acagcaggcc ctgtggatc tgctccgggtt ctggccgaag ctctgaccctt
61801 gctccgggtgc tggccgaaagg tctgacccctt ggtggcccaag gcccaccatg tattccgtga
61861 acactgcccag gctgcaacaa ctcatgagca gggcatgggg ctccgtccctt gctgggtct
61921 gggagttacc cttttgtttt tccaaaccagg catgtcagaa atgatatctc attgttaact
61981 ttccatttgca ttctcttcaac tacaggtgaa gtttaggagg ttccatatg ctgggttggcc
62041 atttacattt ctctttttgtt gaattgccta ttcatatttctt ctgcattt ttccacttgaa
62101 gtattggat ttccctgtca atgtaaaggat gtcacccgtt tattcatagat aggcatctt
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62221 tatggtttat cactcaagtt taaaacattt acataatcaa atatgcttag ctttccctt
62281 ataacttctt ggtttccctt tccttctaaa agtcttctga gtgtctgcgtt aattagttt
62341 tctaaattcg ttactttttt tcattttat ttcttacttca tctgaatttt ttcttttctt
62401 tctaaatgtcaac tcctcttacat gatggatattt atttttgtaa atggcatgac agagcagtcc
62461 aattnaattt ttctcttcatg caaaggcagt gtgatagcat cattaaaata atatccctt
62521 ttcaactgagt tggaaaaaccc ctattgtat gacttgcattt cctctgtggg ggagtccatt
62581 tctggatctt actctataact gttcccttcaat ttctctgtt ttcaagcaca gtgtctgcctt
62641 aacagtaacc ttacaaatcc agcaaggaaa gtgttccctc tgggtttctt ttacttttt

FIGURE 4 (cont.'d)

62701 taaagatagg gtcttactct gttgccagt gtggagtgca gtggagcgcac
62761 catggctcac tgccagctca aactcctgga ctcaagccat cctcccacct cagcccttcgt
62821 agcagttggg attacaggca tgccgcacca tacctaatt ttcttattaa ttttttttt
62881 ttttaagaca tgaggctca cttgggtgcc ctgcctct atgtggttt aattttttc
62941 aaaaaatttt tgactatgct agatttctt ttccatatga atctttcaat ttttaattg
63001 ttttctctcc ttttagttc ctcttcacca ccaccacacc cccacaaga aagataaaaa
63061 attctggctg aaattttact tggaaagtgca ttaagttt ataatagaat ttggtagaac
63121 tgacatttt acagttcct ccccaatatc aaatcaactgt taagagttc ttgtatatcc
63181 tttaaaataa ctttatagtt ggccgggtgc ggtagctcac gcctgtaatg ccaacacttt
63241 gggaggctga ggcaggcaaa tcacaaggc aggagttcga gaccagcctg gccaacatgg
63301 tgaatgccc tctctactaa aaataaaaaa aattagctgg gcgtgggtggc aggtgcctgt
63361 aatcccagct actcggggagg ctgaggcagg agaattgtt gaacctggga ggtggaggtt
63421 gcagtggacc gagatcacgc cactgcactc tagcctgggt gacagtgcga aactccatct
63481 caaataaaata aataaataaaa taaataaaata aataaataaaa taactttata gttttcctt
63541 atatgggcat tatattttat tgtagttagt gagaaggctt attgatttt ttgagaaata
63601 tatttatcta aacactttgc caaatgaatt tattaatcta gtagcttta aaaaatttag
63661 aatctttgt gtttcttagg tctaccatag cattaccaga aaagatcattt ttccctgttc
63721 ttgacaata tggtagttaga ttgtttccct gtttatcat gtggatgac ctctaaaata
63781 atggtgaata aaaacagtga tattcattttttaatggaaat ggcatttagag
63841 ttgcacccctt ttgatgttag ctatcttcatataaaatg aaggttcctc ctatattt
63901 ttatttagtg tggctattaa atgtttattaa attccctttt agtgtgaattt gatataatca
63961 taaactttat ccttatgggt ataataaaattt atgggtgttag ctctcttcat attgaaatatt
64021 ctggaataaa ccctgtttgg ttattacata tagtcattta atacactgtc gcactcactt
64081 cgctaataatc accttttagt ttcttttaaa tctttatata atacttggat tggcttcag
64141 ccttcctttt aagcctgcct gtatccagg tcagaactaa gtttacacca gctttatag
64201 atcaattttgg ggctgataaaa gagccctgga aatgtcagct gtctagtgcc tgggtgagac
64261 tcagctgctc gctgtgttagg tctgtttcca atcaatataat gaaatttggc ctattttctt
64321 caatttcttc taatttattct ttctcttagt ttttattccat ttctcttaat tttcaattt
64381 ttgccccat tttcttcatttt aaaaatatg taatcataat tactgttttttttttttttt
64441 aagagacggg gtcttgatattt gttgtcagg cttagactgt gtggcttattt acagggtgtga
64501 tcatagcaca ctacagcctc aagttagcct cctgcctcag cctctcaatg agctgggat
64561 acagttgtt accaccatgg tgcctggctta attactctt tttttagatt ctttttttt
64621 tccgaatctt gtatctttttt ttcttcatcte ttttttcca ttagcctcat gaggaggta
64681 ttatttatt
64741 tcatttgctt gaggctttat agtttgcaaa gtttccattt tcagaagaag aaagagaccc
64801 aggaacattc tggctgttgc tcaaggctcc acaggctgct agcaagtggc tgaactggaa
64861 ttaagctag gcccctgact ccaggctgtt ccaagagatc tctgagccaa gcttttgaag
64921 gcaccatcag tggctgcctgg gatctccggg gatctcccgat caatttgtc ttcttttagg
64981 tcacctgtcc ctttacctgc tgcttcaggat tcttaggcac agggcttctc tctggtaaca
65041 gacaggaagc tcctctgagg ctacgtgccc ctggggagact gtggggagggc tggaaatctag
65101 agtcagatga cctggcttga atccttagctc tggctggc tggggccacc tggctctcag
65161 ttttcttatac tgggtaaaat gatcaacatc aatagagccc actacctagg atgggtgtgg
65221 tgatgattac acaaataaaag ataggttatc taaaacccca gtggtcaaat gtgcttcaga
65281 atccagaatt tttaggattt tagcagtggg tataacttcat tatgtccat accccctccc
65341 acccccagtc tagggcaaca tactatttttta caatcgaaca gaggcattt tctgcagtga
65401 tccacatatac tatcacattt aatggaaaaa gccttaaat aacccatctt attgcttca
65461 agaaggttt tttacaaaca atgaatttgc tgccatgtttt tgaaatatgc agcagtttt
65521 agattttttta gatttagaat cgagggttaag ggattgcggg ctgtgcaggat taaccatag
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65641 caagggtccag ttcatggaca ttatggctt aatgtcattc tgccatgttcc ccacgggtgtc
65701 ctctgcgcag ttccctccctt ctccccaggaa cctatgcctt gtccatgttcc ggccttggcc
65761 cctgtgttgc gcacaccaggc tcccgccctt gcaaggcaggat ggtggccaggaa acagggggg
65821 acaaaggccct gtggccgcctt gccttcctt cagggtctcc ctcttccttcc tgcctcatct
65881 ccgggtggaca taagaactca catcatcatc aaagggtggca taccaggact ggccttggcc
65941 ctgaccccttgc aacccatgtt gcccctcaat ggtcttggcc tccagcttag tccacagctt

FIGURE 4 (cont. 'd)

66001 cacctgcctg gccccctggca gcaccttgac tggggggccct tggtcagggt gctggggttgg
66061 agagtgcaga atatgatccc agggcaggtc ctccacagtg tgccctcgact ggccaggggc
66121 ttctcaagtg tgccttgggg agtagaaccc tctccgcccc tatggacagc ccacctcagg
66181 gcctgcagga agccctagtg tcttcaaga catagettcc tcagctggag tgtgaatgg
66241 gccaccagg agccctggat cgccagggac tgagctgctc agaaaagggtg gccccccagc
66301 agcctacctg gatggcaatg gggacaatct tggtaaggccag gttcttatac agcaagcaga
66361 tgggagcggc caggaactgg agtgtgcagg ggtctgttt gttggcatcg atgccatcca
66421 gcagctaaaa gtccacgatg aaaatgttcc cttgctgcag gaggcagaga gatgtgtcca
66481 aatcaggctc agcagacggc caaaaaatca ggcctggga aagagtgtatg acctctggc
66541 acccctctcc ctttctgcg actcagcgga gctcagaatg tgcacttctc tcctctgact
66601 ccaaggctga ttgattcaca tggaaagggtt tcacagggtt tggcagttcg gggtaagatg
66661 aaggaatggc agcagctcat tcggcattt gttgtctga aacctgcctg actggcacga
66721 aagatgagag accgaccggc gtgtcagttt actaagaaga aagaggtagt gtgaaataga
66781 tgtgacgagt taaatgccaa tcttcaccac ggggctgaag gtccgnnnnn nnnnnnnnnnn
66841 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn
66901 nnnnnnnnnn nnnnnnnnnn nnnnnnggggt cctcaggggac tgggcctcag cccgcgggt
66961 gttccaccct aggcttcccc aagtcggtca agagccggga gcagctgtcg gagtacctga
67021 ccgtgggtat cttcaccggc tccggcccgac acggccgggt caacttcggc cagtaggca
67081 gggccggggc cgctggcag ggctcccttc tcaaggccgc tgcctccccc cccggccgg
67141 ttctgcacgc gtactgcacc ctcggacacgc ctgggggcct ggcacggac ttgcaggatg
67201 gattctgccc gctcagccaa gggcgttgc cgccccggaaa gaggatggac ggactgcagg
67261 gcccgcgtga gttggggggc acggggagga cggggcccgac gggcagctg ggcacgcgg
67321 cttcgggggt gcccacgctt gctggcggtc gtctcccgag tacactgtgt gctctctggat
67381 ccccaatgog ccccaacca tgcgagcccc gccaccgact gccaaggggc tggtgaccat
67441 tgagcagatc gtggacacgc tgcccgaccg cggccgctcc tgctggcatac tgggtgcagt
67501 gtgggcgtg agccagttcc agaaaaacga ggtgaagctg ggcaggggcg ggcacagccc
67561 caggtcaccc caggttaaagc gggtcctcag cctcagggtc ttgtactcg ggcggccagg
67621 ctcacttggc gcaaaggaaat cctgactttc aaggctggaa gggcccaaga ggctgcagcc
67681 gcccacgggt ccccccggct cagctggac agagtcagg tggtcagg cagagagca
67741 cacagcccaag gcttgccta ctgtcaccag agggtctgt gtagcgcggc ctccccccag
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67861 gtttcttggg ttccctccgg acacgtgcac ctcatttaac ctaacaactg aatccgggt
67921 gtctctgtgg atgcacccgc tttggggtag ctcaactgt catagaatgg cccgaccgt
67981 ccaacctgtt ccagactgt ggggtctga gttgtcccg gcaatgtgt tggccctca
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68101 gcagacaaat tccttggc aagaatattt atactgaatt gccctccaca aactaaattc
68161 aaaatcccat tatcaatagc ctatgttct tggacccccc cagctcagaa gcttgtgt
68221 ctaatccaa tacagtatti ttttaaaatg atatctactg ctgccccca gacatctgt
68281 tgagaatgca aataagcaca ggaccccaac agggcagcca ccccttcagg ctccctggcc
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68401 tgagagtgt ggcgggggt ggcccaagac agcaggatac catggctca aacaccagca
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68521 ttatccatga agccccagcc ctggagcctt ctttagagaa ggcagggtt ggcacgcaca
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68641 tgctccctcc ttcatctccc aaacggggc tggcccttg ggtgagaca ggcctgtcag
68701 ttacacggg tagtggattt acctatgtgt gtgtccatgt ctggccctc agtgttct
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68881 gccatattac tactgtccc cagaccggat tccgaacagt gtggccatct gggcacactg
68941 ccagtctcac tggggaaagg ccagctggcc cagccagatg gactccagcc tgctggcag
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69121 cattctacac agagcaggac tgcacagcgt cctgtccaca cccagctcag catttccaca
69181 ccaagcagca acagcaaaatc acgaccactg atagatgtct attcttggg gagacatgg
69241 atgattattt tctgttctat ttgtgttag tccaattccct tgcacatagt aggtacccaa

FIGURE 4 (cont.'d)

69301 ttcaattact attgaatgaa ttaagaattg gttgccataa aaataaatca gttcatttaa
69361 aatgggtctt gttccatgtg ttatattcca atcaccccaa acagctca gccatctccc
69421 acaccaagag aaaaaaaaaaag ccatagtcac cgtgatttta tcaaggcaaa agcctccca
69481 cccaaagtctg gatagaaggt gcttttcccc tcaaggagtg tctactctct ttggaacaca
69541 tcccaaatgt caccacctct gggaggcat ctttggttcc tgtctctacc ctggatttgt
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69661 acagaaaacc cactttatTT atgtctgtgc cccagggtcg gcataaggca ccagcactca
69721 gctttctct cttttccctc ctggaagggc acctagctaa tggatattag gcattgtctt
69781 gggagctggg ggcttatttt ttcctgagggc agggttctta acatgacata aaaaataaaaa
69841 atggcaggg cgccgtggct cacgcctgtt atcccagcat tttgggagggc caaggtggga
69901 ggatcattt aggtcagaat tcaagaccag cctggccaaac acggtaaaac cccatctcta
69961 ctgaaaatac aaaaatttagc caggcatggt agcaggtacc tgtaatccca gctactcagg
70021 aggctgagggc aggaaaatttT catgaacctg ggagacagag gttgcagaga gtggatatcg
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70561 atggtagagg cattcagctc catgccactg tgagaatgaa cataccaact tttaggcaac
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70801 atcttacatc tggcagaaat gacgcaata gtttgcattt aaccggccac tggatccaa
70861 cgtgtggcag ctgagatgtt cagttatc ttttctctc agctgttcc tttgggttcc
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70981 attctgtgca tagactgtt aaacctctgg atgacccctt agacacatgt acataaggca
71041 aactgcaaac agcccaattt aggataaaac agcctgttcc actctgttt tgctgtata
71101 ataaaataacc tcaagactggg tcattttatc agaacaagaaa ttgattccctc acagttctgg
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71221 gtctgttccca aagggatgc cttctgtgtt gtgtcctcac ccagcagaag agcaaaaaaag
71281 ggcgaacatt ctcaaaaagcc tttttataa ggacatcaat ccattcatga gggcagaacc
71341 ctcaagaatt aatcattttt caaaaggccc ctccctctaa tgccatcacc ttggggttt
71401 agttccaaca catgattttt ggaaggacac atacattcaa atcattgcac aaccaaatgt
71461 atatttgaac tttcaaatag tttcagttt gagatcaact aagttatgtt cttgttgc
71521 taaaaacatc acagccgggc acgtggctc acgcctgtt aa ttccagact ttgggaagcc
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71641 cccatttcttta ctaaaaatac aaaaatttagc caggccggccg ggcgtgggtt ctcattgcctg
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72001 aagtcatcaa atggtagact tcagatgtac gcatgtca gatgtaaat attaccccaa
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72301 aaaatttta taatgttggaa aaaccatgaa atccttacca acgcagtaag acaagaaaaa
72361 gagataaaaag gtataatgtac tggggaggtaa gaaataaaaac cgtctttgtt agcagatgac
72421 atgcctcatct atgttagaaaa tccaaaagaa tggataaaga aactccctggaa actaataatgt
72481 ggttacagta aggttggtagg atacaagggtt aatatacaaaa agtcaatcac tctcttattt
72541 accagtaatgtt aacaagtggaa aatttggaaattt caaaacaaaa tactatttttca attaataactc

FIGURE 4 (cont.'d)

FIGURE 4 (cont.'d)

75901 aaaaatctgt atccatgagg atttaaagaa atcctgcatg agttagaaag aataaggtag
 75961 atgcctgggt tctaacatag aaaatatcaa actggttgtt agatgaaaaaa agcaagttgc
 76021 aaagtggagt aatgtgtaaa tgcatgttgc aaaaatacatc atatataatag tactttctat
 76081 gtatttacct atatgagcgt gatgcctcca actgcatagc tgtggctccg ggagcaggac
 76141 cttgtAACAG agcctctgcc cctgactgtc ctgagggggc ttcccctggg aaaggaacca
 76201 ggTTTgattt tcagtcttctt ttgttatcac catgtgcaca gctttgcttgc tcatatgcct
 76261 ttccctccgc tgcgttgcatttacca gaagctctcc tttagtgccttc atcagacact
 76321 ccctcttttcaaaagaaag acagccgcattccatggtca tctgggttag ctcgagggtga
 76381 gccccaggaa tcatgtgcct cccaccaggc tgacacccca gtggtgagga gttggccctt
 76441 ggcttttcg aggccaagca actcagaggt gtggcaggat tgcatgtcac agtggcactt
 76501 ccaaggccct ggagagtgcac tcaacgcctc tgTTTattaag atgtcacaca ggctgtgcag
 76561 caacaactcttccggacaccc ttcaactgtc cagagtgc aagctttcc tataaagggg
 76621 cacacagtga atactgttagg cttttaggc catactatct gtcaccaacaa ttcaacttt
 76681 cccactgttag ctgtgaatca accgtagata atattaagt aatgtgcact gctgtttgt
 76741 aatagtttat tgacaaaaac agctgtttt gaggcgttgc ttcacccgcac agagactgtg
 76801 gggagtcctt ggtggcagcg agctacaggc agccagtacc ccatcagtgt ggcgtggcc
 76861 atccctctcaa gcctgcctgc acccagacac tgTCAGTGT gtcttcagaa aaactcctaa
 76921 aattccccaa aagcacagt gtcacccgag agccacccctt ctcacccctt tacagggca
 76981 ggTTCTTCCAC ccgggtccac cctcctcgc acggagctca gggggccatcc ccacccctc
 77041 ttggccgcaa gcacagaccc tcccacacag gtcagcgc tctggggcc tggggggcc
 77101 ctggagctgc aggccctccac tccctggggac agctgtgacc atggctctgc aagcagcc
 77161 tgtgcctagc tcccaagtc gtcacccgagc cagagtggaa caattctgtg gtcacccct
 77221 gagacacggc cacatctggg caaggcctggc ttcccaccc tcaccccttgc caacccct
 77281 cccttgcatt gcatgtggta gggaaagctgc aaccaggcct cagcaactccc agacccct
 77341 gcggtttgtc gtctggggat cgtggcactg cttccctca gaggccttgc cagagccagg
 77401 ggatgcacgc tggcagaggt gtcacccgac acccctgtgg ttccttcgtt gtcacccct
 77461 ctgggctgtg gtcaggacca aattttatgata gataagggtt gtcacccatcc tagtgtc
 77521 tggcatgca gcgacagact cgagctgc ttccttcagg gtgggtgagct caggttaggaa
 77581 cggatgttt gaagcaagca caccctgtgaa aatgcctgt tttcaactccc atcccacaca
 77641 ctgcctccaga cactgcacgc ccaccccccga cacacgtgtc tgaggggaggc tgaggaaaa
 77701 agacacccca aggacccgca tactatccc tgatgtgtaa gccagacaac ctcggaaagg
 77761 aggtcaggaa accggaggtgc ctgcacccgt ccccaacccctt cctgcacccaa aacactctca
 77821 tggcaaaaact ctttttaaa gaaaggctt attgctgcaaa tttagacatcc cagtgtatag
 77881 cacaacccca cttgtacaga gaattattca agtggtaata ctgagaaaca gtgaacacac
 77941 acaaaaagaat acaaaaactt acatatttagat cactagaaac tttctaaggta aaaaaaaaaatt
 78001 tcaaattgtgaa agtgcctttt agaaactaca ccacacatgc cagtgtttttt ttgggttt
 78061 aatcaatttc tataaacatt gcatctact gtgcactgtt caactgcaca acttcaacaa
 78121 ttacttccaa gacaaagata aatgttttta ttccctatg ttttgggtttt tccttgggt
 78181 agagacagaa gctgcattttt tcaaaaccaga ttcaaaaggaa aacgcacttc aaaacagaaaa
 78241 gtacttcaat tgggttattt ctttcagccaa catccagaga cttgtggatc tcacccgggt
 78301 ggtcccagcc ctttcaccaac cttgtggccaa acagcagggg tgcagaggca gccccagatc
 78361 gtgcacacat caccctgggc tcccaactg gcccacgtgc ctgaggcctg catgcctgt
 78421 gccaggtagg acacatgtgc aggtttggaa actaggccca caagactgaa gagtgactg
 78481 aagcaaaaag gggagaaaca tttagggcctt acagttaggaa gagacccctt atagagttt
 78541 caggaaattt tcacaataaa cttggggcaca aagaccaaat tgctggggcc agaaggctgc
 78601 ttatggtaact gtgcattttt gggagtagag gccaatcag agagggctgg ctgggtata
 78661 cccagaccac ttgcctttcc ccctccctg gcctacaaat accaggccctc ctggccctg
 78721 gacccatcc tgggttctt tatgggttcaaa ccaaaatgcac tccttcactt aaacccagg
 78781 gcaaaaatggg gggggaaagggg gggaaagctgg ggagtacaca gcacccaaaaa gaaccggag
 78841 agcaagttttt ccaaggctac aggaacatttgc cagagctgg tggccacacc agatggggag
 78901 accacatccc caccaggctt catgttccat tgcttagatgc agggggcttag aagggtct
 78961 tgaatcagga gctgaacttag aacccatggaa aaaagaaaaag gcaaggggggt ggctctgt
 79021 cccggccagga gaggaaagaa gaatgtgtgtt ggattgtcca cagtggggcc agaaacat
 79081 agatgggtt aggcagaaaaa gaaggggaggg ggcctccat gagaatctgg ctggggcatgg
 79141 gaggataca gggctcaggat ttcaaggcactt cttggccata gtgggggt

FIGURE 4 (cont.'d)

FIGURE 4 (cont.'d)

82501 ggacaatgg acttcctt ttccta atcg aatgccttt atttccttct cttgcctgat
82561 tgccctggct agaacttcca acactatgtt gaataggagt ggtgagagag ggcattccctg
82621 tcttgtccca gtttcaaag ggaatgctc cagttttgc ccatgatgtt tgatattggc
82681 tgtgggtttg tcata gatag ctcttattat tttagat aatctcatcaa tacctaattt
82741 attgagagtt tttagatgc agcgttgctg aatggatca aaggcctttt ctgcatttat
82801 taaaataatc atgtggttt tgtcattgg tctggttgc tactgggtt catttattga
82861 ttgtgtacg ttgaaccagg ccttgcattc caggatgaa gcccacttga tcatggtgaa
82921 taagctttt gatgtgctc tggattcg tgcaggattt tatttggat tttgcattcg
82981 atgttcatca agatattgg tctaaaatgg gtttttgg gggctctgc ccagctttgg
83041 tctcaggatg atgcctcccc tattaaaaga gggaggggagg attccctt tttctattga
83101 ttggaaatgtt tcagaaggaa atggtaccag ctcccttgc tacccctgtt agaattccgc
83161 tgtgaatcc tcaaggctctg gactgtttt gtttggtaag gtattaaatgg ttgcctcaat
83221 ttcagagctt gtattggc tattcagaga ttcatttgc ttcatcttgc ttctggag
83281 ggtgtatgtt tgaggaaatt ttccatttgc ttcttagattt tctatgtttag ttgcata
83341 gtgttttaaa tattctgttgc ttgttagttt tatttgc ttttttttgg cggatatttt
83401 ttatcattt ttatttgcattt ctatggattt cttctgttgc ttcttcttgc ttatgttgc
83461 tagcggctca tcaattttgc tgatctttt aaaaaaccag ctccctggattt cattgattt
83521 ctgaagggtt ttttgcgtt ctatccctt cagttctgttgc ctgatcttag ttatcttgc
83581 cttctgtca gcttttgcattt gtttgc ttttttttgc ttatcttgc ttatgttgc
83641 taggggttca attttagatc ttccctgtt tctcatgcgg gcatttagtgc ctataaattt
83701 cttctcacat attgctttgc atatgtccca gagatttgc ttttttttgc ttatgttgc
83761 attggtttca aagaatatct ttgtttgc ttcatttca ttatgttaccc agtagtcatt
83821 caggagcagg ttgttcaggat tccatgttgc ttttttttgc ttatgttgc ttatgttgc
83881 gagttcttagt ttgattgcac ttttttttgc ttatgttgc ttttttttgc ttatgttgc
83941 acatttgcgtt aggagagctt tacttccaaat tatgttgc ttttttttgc ttatgttgc
84001 tgggtctaaa aaaaatgtat attctgttgc ttgttttttgc ttatgttgc ttatgttgc
84061 taggtccgct tgggtcaggat ctgaggatcaat ttccctggat tccctgttgc ttatgttgc
84121 cggtgatctg tcta atgttgc acagggggtt gtttgcatttgc cccatttattt ttgtgtgg
84181 gtcttaatttgc ttttgcatttgc ctcttaaggat ttgttttgc ttatgttgc cccctgtact
84241 ggggtcatgtt atgttttagtgc tagtttgc ttttgcatttgc ttatgttgc ttatgttgc
84301 gtaatggctt ttttgcatttgc ttgttttgc ttatgttgc ttatgttgc ttatgttgc
84361 taggttgcac accccctgcatttgc ttgttttgc ttgttttgc ttatgttgc ttatgttgc
84421 attttgaacc tatgttgcatttgc ttttgcatttgc ttatgttgc ttatgttgc ttatgttgc
84481 ggggtcttgc ttttgcatttgc ttgttttgc ttatgttgc ttatgttgc ttatgttgc
84541 ttacttttgc ttatgttgc ttatgttgc ttatgttgc ttatgttgc ttatgttgc
84601 ggttatttttgc ttatgttgc ttatgttgc ttatgttgc ttatgttgc ttatgttgc
84661 gcatgttttgc ttgttttgc ttatgttgc ttatgttgc ttatgttgc ttatgttgc
84721 agcttttgc ttatgttgc ttatgttgc ttatgttgc ttatgttgc ttatgttgc
84781 gattttatgtt ttatgttgc ttatgttgc ttatgttgc ttatgttgc ttatgttgc
84841 aaatttttgc ttatgttgc ttatgttgc ttatgttgc ttatgttgc ttatgttgc
84901 tctgccttgc ttatgttgc ttatgttgc ttatgttgc ttatgttgc ttatgttgc
84961 tctctgttgc ttatgttgc ttatgttgc ttatgttgc ttatgttgc ttatgttgc
85021 ttttttttgc ttatgttgc ttatgttgc ttatgttgc ttatgttgc ttatgttgc
85081 tgaatgttgc ttatgttgc ttatgttgc ttatgttgc ttatgttgc ttatgttgc
85141 ttttttttgc ttatgttgc ttatgttgc ttatgttgc ttatgttgc ttatgttgc
85201 ggttttttgc ttatgttgc ttatgttgc ttatgttgc ttatgttgc ttatgttgc
85261 tctaaacttgc ttatgttgc ttatgttgc ttatgttgc ttatgttgc ttatgttgc
85321 ttccaggatgttgc ttatgttgc ttatgttgc ttatgttgc ttatgttgc ttatgttgc
85381 ggttttttgc ttatgttgc ttatgttgc ttatgttgc ttatgttgc ttatgttgc
85441 ttatgttgc ttatgttgc ttatgttgc ttatgttgc ttatgttgc ttatgttgc
85501 tagctcaggatgttgc ttatgttgc ttatgttgc ttatgttgc ttatgttgc ttatgttgc
85561 catccaggatgttgc ttatgttgc ttatgttgc ttatgttgc ttatgttgc ttatgttgc
85621 ctgatttttgc ttatgttgc ttatgttgc ttatgttgc ttatgttgc ttatgttgc
85681 taccttgcatttgc ttatgttgc ttatgttgc ttatgttgc ttatgttgc ttatgttgc
85741 gtttgcatttgc ttatgttgc ttatgttgc ttatgttgc ttatgttgc ttatgttgc

FIGURE 4 (cont.'d)

85801 ggagggtccac tccagaccct gtttgcctgg gtatcagcag cagaggctgc agaacagtgg
85861 atattggta acagcaaatg ttgctgcctg atcattcctc tggaaagttt gtctgagagg
85921 agtacccagc cgtgtgaggt gtcagtctgc ccctactagg ggggcctcc cagtttaggt
85981 attcggggggt cagggaccga cttgaggagg cagtctgcc atttcagat gtcaagctgt
86041 gtgctgggag aaccacttct ttcttcaaag ctgtcagaca gggacattt agtctgcagt
86101 ggttattgtc gtctttgtt tgcgtgcctg ctgccttgg aggtggagtg tacagaggca
86161 tgcaggcctc cttgagctgt ggtggctcc agccagttca agttcccg ctgctttgtt
86221 tacctactca agcctggca atggcggca cccctcccc accctcgctg ccgccttaca
86281 gtttggtctc agactgctgt gctgaaag agtgaggctc tgggggtta gaaccctcca
86341 agctatgtgt gggataataat ctcctgggtgt gctgttatt aagccattt gaaaagcaca
86401 atatttagggc aggagtgacc caatttcca ggtgcattt gtgaatgctt tctttgacta
86461 gggaaaggaa ttccctgacc tcttgcctt cccaggtgag gtgatccctc accctgcctt
86521 gggtcacgca tgggtgtcta caccactgt cctgcaacca ctgtctggca ctccccagtt
86581 agatgaaccc ggtaccttag ttggaaatgt gggaaatcacc tgggttttgc atcgctcatg
86641 ctggggagctg tagactggaa ctgttcttat tcagccatct tgggtccacg tataatccact
86701 gcccacacttc tttagtcata aagtgagtgc cttggtcaga ggcaatgctg tggaaatac
86761 catgtggtg gataaggcat tctgtgagtc catgaatgtt agtctggca gagcattgtg
86821 ttcaatgtttag gcaaaacccat atccagagta agtgtctgtt tcagtgagga caaacctctg
86881 cccttttcag gatggaaagag gtccagttt accaaccctt caccaggtaa cagactgatc
86941 acccccgagga atgggtccat attgagggtt cagtgttagt ctctgctgt gtcaaattgg
87001 gcactcagct gttagccatag ccagggcagt tttgggtgagt ggaagtccat gttgctgagc
87061 ccatgtataa cctccatccc tgccaccatg gccactttgtt ttatggggcc attgggtgat
87121 aacaggggtg gttggggaaa gaggctgagt gatgtccaca gaacaggtca tcttatccac
87181 ttgatttata aaatccctct ctgctgagat caccatgg tgagcactca catggatcc
87241 aaatatcttc acagggtttg gccactcaga gaggtccatc cacatacctc ttccccaaat
87301 ttcttgcata ccaatttcc aatcatgctt cttccaagtc cctgaccatc cagccaaacc
87361 attggctaca gcccataaat caatatataa tcgcacatct ggccatttat cttccatga
87421 aaagtgcaca accaggtgca ctgcttgaag ttctgcccac tgggaagatt tcccttacc
87481 actgccttc agtgtatgtcc tagaaagggg ctgttagtgc gcagctgtcc acttttgggt
87541 ggtgcctgca tatcggtcag aaccatctgt gaaccaggcc ctgtcttctt ctccctctgt
87601 caactgatca tagagaactc cccatgaggc catcggtcga ggctggggaa gagaagggtgg
87661 ggtggcagtt gtggagacca tggcattt agtacttcc ttgtgttaact tacttgtcc
87721 tttaggaccc gtcgagccc aatcacatat atatcacttc catttgcata tgaaatgctg
87781 ctgtgcata cccatttat ggctacatgg gtcagaaagc acccagttca tgatagacag
87841 ttcaatgtttagt gatgacccat aatcaaattt tcagttccca ccaaagctca
87901 gtaacaggcc aagagctgtc tttccaaagc acagtagtta tatgcagaaa atggcaggcc
87961 cttgtttcaa aatttttagag gcacatgtctg tgattcacct gttggggccct gccaaaggct
88021 ccaaacagca tccctatctg ccactgatgc ctcaagcacc attggatctg ctgagtctata
88081 tggcccaaacc agcagagcag gttggacagc agcctggacc tgaggcagag ctttatctgt
88141 ttctggaccc cactaaaaac tggcagccctt ttgagtcaact cgataaatgg gcctgagtaa
88201 cacacccaaa tgaggaaatgt gttacctca aaatccaatgt agggccacta catattgtgc
88261 cttttctta gttgttaggag gggccaaatgt cagcaactt tccttcatct tacaaggagt
88321 atcttgacag gccccacacc agtggacccat tagaaatgtt actgaggttag aaggccctg
88381 aatttttagtc aaattttat ctcataatccctt ggcacacaaa catctcacaataa ataaatccag
88441 tgtgtttgtc acttcttgcactt cactggatcc gatcagcata atgtcatcaa tgaaatggac
88501 cagtgatgtc tcttgcagaa gcaaaaaatgt gtcaagatct ctccaaataa gattatgtat
88561 caaagccaga gtttataatac tcttgcacca gggaggtaaa gatataattgc tagtcttgc
88621 agctgaaggc aaattgtccat tagtggccctt tatgaatagg aatggagaaa aaggccattt
88681 ccaagtcaat ggctgcatac caggtaccag gaaatgtttt aatttgcata agcaatgaaa
88741 ccgtatctgg tacagcagct gcaattggag tcaccactt gttaaatgtt tgataatcca
88801 ctgtcatttc ccaagatcca tctgtcttgc acatgcctt aatgggagag ttgaatgggg
88861 gtgtgtatgtaa aatcaccacc cttgcgcctt tcaagtcctt gatcatggca ctaatctctg
88921 caatccctcc agggatgtga tattttttt gatttaccat ttttcttaggt agaggcagct
88981 ctaatgcctt ccatttggcc tttccacca taataggcct caccctacca gtcaggagc
89041 caatgtgggt gttcttccag ctgcttaatgtt gttctatgc aattatgtatc tctggactg

FIGURE 4 (cont.'d)

ESTERSON

89101 gggaaatgaa cacaggatga gcctggggac ccattggacc cactgtaagt cagacctgag
89161 ctaaaaactcc attaattacc tcacctccat aagctcctgc tttaactgga ggaccacaat
89221 gacgtttga gtcccttaga attaacgtca gctcagagct agtgcctgt aatccccaa
89281 atgactgata atttcctt ccccaatgca cagttacctt gataaaaggc tggaggtctc
89341 cttggaaaaa aatgggagaa agattaacag cataaaattgt tggttagtga gtgggctct
89401 tccttaatgg gacccaactt ccccttatt caaggggttc tigtctgt aactggotca
89461 agtcaaaaat tgattgaggg gccatgattc tctatTTTA taattcaaag tagtgTTTg
89521 tccatttgac ctggaaagtt tctgcttata taaattaagt aggaaaagaag taggcattct
89581 aacaatttca cttctggaa cactgtgatt aattagcgaa tgccagaact ctacatgagt
89641 cagactattc tgattgctc tttgccacta ctgtctgtt tggttagttat gcccacottg
89701 ccttggatgg ttgagtgcca ccacttggcc tctgcccaccc tgggatccaa ttattcccat
89761 tgtatttacc ttattttttt gagtactgt ggttcteacc attggatctg atatgcagag
89821 aattacgggg ctcttcaaaag atgcagggtc taccctcaca gatctatTTT gcaagggtt
89881 ggtcaagggt atatcttctg ggccttcca tctggatgaa tgtaggtctaa agtgactaat
89941 ccactccacc atctcaatct ctctaaaccc ttggatccct tcctctacat taaaccaaga
90001 gtgatcagac atttccagct ccctcacagt ggccatctt caatccatat ttcaagctaac
90061 taagcaaata aattattaga acctttttt aactccctga gctgcaatTTT taaatgcaga
90121 gtctctactt agtggggcca aatcaacaaa ttcaacttca tccaaactcta tgttccttcc
90181 accattatcc cacaccctta atatccattc tcatgcctgt tctccagatt tctgtttata
90241 taaattagaa aactcaagta gttctttca agtatagtga acctccatcat gggtttcaact
90301 ctcaacctca cctctgggg cccataagga cttagtctg gttataggtc tagaaggcaga
90361 caggggtgtt ggggggtggct cctgaggaga atcaacatta ttttgcttgg caactgctca
90421 gggggggcca tcaactgttgc cttaggcage acagtgttta tctcccccaga caaatatgga
90481 aaggctgatg gcagcatggg tcagggagag gatgtcacca ctactggggta tggggaaact
90541 gtttttttc tggcaaaaaaaaaa ggttcctga gactttacaa actcaagtgtc cccagcttca
90601 tcagggcttcccacatgtc cccttccaa gttgcagggt cccattctt tccaaacat
90661 gccctcaatt taatagtaca tacctggta ggctgtgcatttgcaccccttca ttggaaagtca
90721 gccacttgca caataagagc tcataatccat tttcccacaa tttagtctt ttctctgcag
90781 gagataatac tttcaactcag ggcaatcttca gcaattttga ggctcagtttgcatttgc
90841 agccaggagt tagaatccctt aagttcattt tctttcatca ctttgtccat tgaactttagg
90901 agaaaccaac caacttcattt atgtttccac atatggtcaaa aggtattttt tataaggtca
90961 ctaaaactcc tgcctctcat gaggcgtgaa tcaggaatgt caaatgcatt tattttgctt
91021 aactctctaa acagttcata gaaagggaca ctgaatcagt gtttccata ctatcagaag
91081 tagagtccctt agcatttttgg tgcataatca tattaaacag ccactccaga aaccctaaaa
91141 ccaatgaaag aactgcatttca ttaatgttctt gttcctcttag aaccacttccctt ggtacaaaa
91201 tctgttttag gtttctcttag agggcagaa ctaataggat agagatataa aagaaggaaaa
91261 gtttattaaag tattaactca catgatcaca aggtcccaca ataggatatc tgcaagctga
91321 ggaacaagga gagccagttcc aagttctaaa ctgaagaact tcgagtctga tggtcaaggg
91381 cagggagcat ccagtaccat agaaagatgt aggctggaa gctaggccag tttagtctt
91441 tcatgttttcttgcacactt ttcatattctt agtgcactg gcaagctgatt agatgggtcc
91501 cacccagggtt aagcgtgggt ctgccttcc cagcccactg actcaaatgt taatctcctt
91561 tggcaacacc ttcacagaca cacctaggat caataacttgcatttgcacccatca tccaaatcaag
91621 ttgacactca gtattaaacca tcaacagaacg attatctact aataccacca tataaaagat
91681 gcggatgtta gcatagttt cacactgttt cctcacacaa tccactaccc atggcttgg
91741 ttctatggac atattattgg atctgagccaa gcttattata atgttttaaa taatattcaa
91801 gaattgttac aattgcattt tgaattgtt ttatTTTaaat ataggtcaat ttctaaatag
91861 attctgtcc atagtcagat ttacatcat gatttccatca ctcatgacat taaaagttt
91921 atttggtaaa tttagccat atatacaagt ctgcatttgg ggtatggtaa ttgaatgcca
91981 ttttaattt ttggtaatg gagactttt ttatgttgc tttatatttgc atccataact
92041 aggctatgtt gtcacattttt gggtaaaatc tctattgtt taaaactttg tggttttgc
92101 tcatttatctc ttagtatcta cagttactga agtgcatacg tcaaccagct ttggacatga
92161 tgaatgtttt aggctaaaga cttgggtgtt cttgggtctt tggaagttt cttaataact
92221 ctctttaat ttgtctgatt ccacttcttgc gttccctttt caggaacacc aagtattc
92281 acagttggata gtcacatgtc ctctacttca aaaattttgt tatttaacaa aatgttataa
92341 aagtagaaatc acatttatgtt aaccccttgc gattgtatgtt ttttgcattca cataatttcc

FIGURE 4 (cont.'d)

92401 tggcaatcca tccaaagtgt tgcatgcac aatcatccat tcctttacat tgctaagtag
92461 tattccatgc tatgtattt caacagttt tttaccatt caccgttga aaaacatctt
92521 ggctgaatct agttcttagc tattaatatt ataaaacaag atgtataaa cattgttgg
92581 acagttttt gtgtgaagtt ttatTTTC tgggataaat gcctgggagt gcaattgctg
92641 ggtcatatga tagtgtgtg ttttcttg agaaactccc aaaattttcc agagtggatg
92701 aagtattta tggcttctatc agtaatgtat cagtgtatcg gtttctacac atccttacca
92761 gcatttggg gtgtcatgtat ttttaattt agccattctg atagatgagt agtgatagct
92821 tattgttgtt tcaatttgc tttccctaaa acctaataat tttgaacatc tttcatgtg
92881 attatttgcgttccatgaaa tatctgtgga aacagtgagt agaaggatgc tttccacagt
92941 ctgagaagga cagctggag aggtggatga agagaggtt gstatatggg aaaaaatac
93001 attaaagacc tctgtccat gctgggcaca gtggctcatg cctgcaatcc cagacttgg
93061 ggaggccaaa gccccgttggat cacctgaggt caggagctt agaccagctt ggccaacatg
93121 gtgaaaccct gtcttactg aacataaaaa aattagccgg gcatgggtt gctgcctgt
93181 aatcccagct actcaggagg ctgaggtggg agaatcactt aaacccggg ggcgaagtt
93241 gcagtaagcc gaggtcacac cactgcactc cagcctggc aacagagcac tccagccggg
93301 gcaacagagc aagactctgt ctcaaaaaaa taaaataaaa taaagtaaaa caaaataaaag
93361 agttcaatc cagcagagag tgggtggaga tgggtcgggg ccagctccct gggacttctg
93421 agccttggc ctggccagtg ggggagctga gccaggatag gctgtagct ctgccccgtg
93481 acaccaggac ctttgtggt gctgccacca ggacccttgg ggtgggtggc tggccttga
93541 agatgcagca agcctccctt cccccctacac ctcagtgact gagggtggt gtggccttgc
93601 ccaggccgca ccctggggg tataacgaa gtccccactg agcctggatg cagtcctt
93661 ggggtgggtt gggagtgca gggggcagtt ggtgactatc cgggtgtgag gattggaaag
93721 gtgtcttgg gatcaggac acgggctcag ccaccttcc agggccatggc gtcggcagat
93781 ccgggtccctg gtgaccactc tggcccagct gggtgagact tacctagtc tgaggacaac
93841 agacaatggc ctaataagc ctggaaaggta agtggaggca cagaggagga cagtgggaa
93901 cagtttagcag gcattggct gttggcttcc ctttctaccag accttgcattt ctatctgct
93961 tggcctatgg gaaatgccc gCACACTTGG ggaagattt ttagggcattt cttagaaggct
94021 gtgtgtatata tataaaaaaa ctattctcaa ctcacccccca accttttaat agataacatc
94081 tggggggagg ctgacaagat ggctgaatag aaacagctca ggtgtgcagc tcacagttag
94141 atcaatgcag aagggtgggtt atttctgtat ttccaactga ggtacccggc tcatctcatt
94201 tggactgggtt agacagtggg tgcagccccat ggagggtgaa ctgaggcagg gtgggggtt
94261 gcctcacctg ggaagtgc ggggtcagaa aactccccctg ttagccaagg gaagctgtaa
94321 ggagctgtgc catgaggagt ggtgcattcc agccagata ctagctttt cccatggct
94381 ttgcaaccca cagaccagga gattccctcc agtgcctatg ccaccagggt ctgggtttc
94441 aagcacaaaa ctgggtggcc atttgggttag acaccaaggt agctgcagga gtctttttc
94501 ataccccaagg gatgcctgg aatgcagcga gacagaaacc ttcactcccc tggaaagggg
94561 gccgaagcga gggaaaccagg tggcttagct cagtgatcc caccggcatg gagcccagca
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94681 gatgtggag cttgttatgg ggagggcgt ctggcattac tgaggcttga gtaggcagtg
94741 ttccctctcac agtgtaaaca aaactgcagaa gaagttccaa ctgggtggaa cacaccacag
94801 cgctgccagg ctgtgttagc aagactgcct ctctagattc ctcctgtctg ggcaggccat
94861 ctctaaaaaa aaggcagaag ccccaagtca gggacttatacg ataaaactcc catctctctg
94921 ggacagagca cttggggggaa gggggcagctg tgggtgcagc ttccagcat tttacatcc
94981 ctgcctgcga gctctgaaga gagcagtggaa tctccctggaa ctagtgttga gcagactgccc
95041 acctcaagt ggtccctgac cccctggct cctgaccggg agataccctt cagaagaagc
95101 caacagacac ctcacacaag agagctccag ctggcatctg gcaggtgccc ctctgggaca
95161 aagcttttag aggaaggaaac aggcaat ctttgcgtt ctgcagcctc cactggtgat
95221 acccaggccaa acaaggctg aagttagatgt ccagcacact ccagcagacc tgcaagcagag
95281 aggctgtact gtttagaaagaa aaactaaca acagaaaggaa atagcatcaa catcaacaaa
95341 aaggacatcc actcagaaac cccatccaaa ggtcacaac atcaaacaca aaaggttagt
95401 aaatccatga agatggggag aaaccagcac aaaaaggctg aaaattccaa aaaccagaat
95461 gccttcttcc tccaaaaaaa tcacaacttc tcaccatcaa gggaaacaaaa ctggatggag
95521 aatgaatttg atgaattggc agaagttaggc ttcaaagggt gataataaca aactcctctg
95581 agctaaagga gaatgttcta acccaacgcg aggaagcaaa gaaacttgaa aaaagattag
95641 atgaattgtt aactagaata acgagtttag agaagaacat aaatgacccg atggagctga

FIGURE 4 (cont.'d)

FIGURE 4 (cont.'d)

99001 agaatctccc taactcatt tacgaggcca gcatcatcct gataccaaag cctggcagag
 99061 acacaacaaa aaaagaaaat ttcaaggccga aatcccta ataatattgt gcaaaaatcc
 99121 tcagtaaaat tctggcaa ac cgaatccagc agcacatcaa aaagcttac caccatgatc
 99181 aagtggctt catccctggg atgcaggct gttcaacat atgcaaaatta atgaacgtaa
 99241 tgcatcacat aaacagaacc aatgacaaaa accatgtgt tatctcaata gatgcagaaa
 99301 agacccctga caaaattcaa cagccctca cgctaaaaac tctcaataaa cttagatattc
 99361 atggaacatg tctcaaaaca atcagagcta tttatgagaa acccacagca gccaatata
 99421 tactgaatgg gcaaaaactg gaagcattcc ctttggaaaac tggcataaga caaggatgcc
 99481 ctctctcacc actccattc aacatagtat tgggagttt ggcaggggca atcaggcaac
 99541 agaaagaaat gaaggatatt caattaggaa aagaggaatg caaattgtct ctgtttgcag
 99601 atgacatgac tgttatattt gaaaacccca tcatctcagc cccaaatctc cttaaagctga
 99661 taagcaactt cagcaaagtc ttgggataca aatcaatgt gcaaaaatca caagcatcc
 99721 tatacacca taacagacaa accgagagcc aatcacgag tgaactccc ttcacagttg
 99781 ctgcaaagag aataaaatac ttaggaatcc aacttacaag ggttgtgaag gacctctca
 99841 aggagaacta caaatcactg ctcaatgaca tcagagagga cacaacaaa tggaaaaaca
 99901 ttccatgctc atggatagga agaataata tcgtggaaaat ggcataata tccaaagata
 99961 tttagatattt gaatgttac cccatcaagc taccactgac tttttcaca gaattggaaa
 100021 aaactacttt aaatttcata tagaacaaa aaagggctg catagccaa ccaatctta
 100081 gcaaaaataa caaagctgga ggcacacac tacctgtact taaatatac tacatggctg
 100141 cagtaaccaa aacagcatgg tactgtacc aaaacagata tatagacca tggAACAGAA
 100201 cagggcctc agaaataaca ccacacatct acaactatct gatcttgac aaacctgaca
 100261 aaaacaaagca atggggaaag gattctctac ttaataatgt gcattggaa aactggtag
 100321 ccatatgcag aaagctgaaat cttagatcccc tccttccact gtatacaaaa attaactcaa
 100381 gatggctaa agacttaaaat gtaagaccta aaaccataaa aaccctaaaaa gaaaacatag
 100441 gtaataccat tcaggacata ggcacccggca aagacttcat gactaaaaca caaaaagcaa
 100501 tggcaacaaa agccaaaattt gacaaatggg atctaattaa actaaggagc ttctgcacag
 100561 cggaaatgaa taccatcaga gtgacaggc aaccaacaga atgggagaac atttttgca
 100621 tctatccatc taacaaaggg ctaatatcca gaatctacaa agaacttaaa caaatttaca
 100681 agaaaaacaa aacaattcca tcaaaaatgt ggtgaaggat aagaaaaagac tcttctcaaa
 100741 agaagacatt tatgcagtc acaagcatag gaaaaaaagc tcacatcac tggcatttag
 100801 agaagtgc当地 atcaaaaaca caatgagata ccatttcatg ccagtttagaa tggccatcat
 100861 taaaaagtca agaaacaca gatactagag agcatgtgga gaaataggac cacttttaca
 100921 ctgtgggtgg gagtgaaat tagtcaacc attgtggaa acagtgtgtt attcctcatc
 100981 ttccacacgg ggtggaggta cgnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
 101041 nnn
 101101 nnagaaacat agaccctgcc caacgcata tcctggaaagg gatggcaagg tttttttaaa
 101161 gtttttatgg gtttaggtt actctaaagg attttaaacc ttctaaaattt attttttgtat
 101221 aaaggtgtaa gaaagggtc caacccactt cttttacaaa tggaaagcca gtttttcccg
 101281 gcccctttt ttaaaaagga ttcccttcc cattgggtt tttttcaag gttgtcaag
 101341 atcagaaggt ttagatgtg gttggtaat ttttaggggt ttgttttggc cccattgtgc
 101401 cataggtcgg ttgtggtaacc agggccatgt tttttgggtt actgtaaagcc tcgttagtatg
 101461 gtttggatgc aggttagcatg atgcctccag ctctgttcc ttggctttagg attgtctgg
 101521 caatgcgggc ttccatcatg aactttaaag tagttttcc caattctgtg
 101581 cagaaagtca ttggtagttt gatggggatg gcatgtatc ataaattacc ttgggagat
 101641 ggccatccc atgatattga ttcttcctat ccatgagcat ggaatgttct tccatgtt
 101701 tttttttttt tttttttttt tgacgtgg tttttttttt tccttgcaga ggtccttcac
 101761 atccctgtt agttggattt cttagtattt tattctttt gaagcaattt tgaatggag
 101821 ttccatcatg attttggctgt ctgtctgtt ttggatata agaatgttgc tgatttttgc
 101881 acattgattt tttttttttt tttttttttt tgatattttt tttttttttt tttttttttt
 101941 gttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt
 102001 acttcctctt ttccatattt aatccctttt atttccctt cctgcctgtat tgccctggcc
 102061 agaacttcca acactatgtt gaataggat ggtgagagag ggcacccctg tcttgcac
 102121 gttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt
 102181 tcataaaatag ctcttattt tttttttttt tttttttttt tttttttttt tttttttttt
 102241 ttccatcatg atgggttgc aattttttt tttttttttt tttttttttt tttttttttt

FIGURE 4 (cont.'d)

102301 atgtgtttt tgcattggc tctgtttata tgcttagatta catttattga tttgcgtatg
102361 ttgaaccagc cttccatccc agggatgaag cccacttgat catgtggat aagctttctg
102421 atgtactgct ggattcggtt tgccagtatt ttattgagga ttttcgcatt gatgttcatc
102481 agggatattg gtctaaaatt ctcttgcatt gttgtgtgc tgccaggctt tggtatcgaa
102541 atgatgctgg cctcatataa tgagttaggg aggattccct cttttctat tgattggaaat
102601 agttcgcac aactgacatg attttaaaaa ttccctatag ggtcaatgtg cagatttaaa
102661 gatcctaca ctcagtagc ctggatagg gtcgggggat ccataatgtt aacaaggcgc
102721 cttagtctc ccgatagcct gggcaagctt taaaaagccc tgcgcacatt cgatgaaac
102781 aaaggtgcac agaacctata tctctgccc ttattagctg ggggccttag gcaaggaagg
102841 tagtcaacct ccgtattcct cagttcctca actgtaaaat gggatgatg actgtggctc
102901 cctcggtggg ttgtgacgga ggaacagggg acatatgtcc tgggatcagc actggcaatt
102961 tggccattct taccatagca cctgccatct tgggatcagc ctggacacaa agccttcaca
103021 ccttgaagt ggccatagag agcatgagat atggatgggg aggaggcatt ccaactaaag
103081 accctgcctt tgggcaaaa acacatgtat gtctgggtc tggagtcctc tggttatgcc
103141 tttttaaga taccgggtt cctgcaattt tgctgtgaga atccactcta tggccaacat
103201 atcatcaaag cggttggctc agctaggctg ttcccccaac ccaaggaccc catgaggaaa
103261 ggagtgaggg ttccacccccc agcaccagcc actggagggg ctgcccagag tccctcagtt
103321 ctcgtaaact tacgctttgg agtaattcag aacaaagtcc actcctttt cactatcaaa
103381 ctggatatac cggggtaaat ctttgtggca tttggcattcg atgtcaagg ggaagccagg
103441 gttcactcc atccatctga gcatgagaaa ggagaagaaa ttgagttaaa tgccagcctt
103501 tggctgtccc ctcagctga gggccgcccc cactgtcaga cgatgttaca cagggagatt
103561 gatgtactca aaataaagtcc aacacatcat aggctgaccc tggatccatg aaggttctgg
103621 gacccttccc aaagtccatg cgcaccaact ttgtgtgcc ctgagcatca gagtgggaaac
103681 cctgagactg ggcttatagt ggtacagggtg tgccacactg cataaaaagt tctgttaggt
103741 gtctaggggg acctcaactt cttaggtgtc cattgaaacag tagaggctg cttgcccagt
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103861 tgccaaacttgc atcgtgtt gcccggact gctgtcatgt cctgcattgt gcattttgggg
103921 aaatggaca gttcttctgc cttecaataa ggacgacacg gcagcagggtg gcctgggaga
103981 gggacccagg cacagatggc taaaaggctt ccctctctca cctgtggcc aatagcagct
104041 ttagagatta ttacaatcaa aacagcttcc ccaaagacaa gccacggact gcatccagta
104101 aacatgctca gatcctgaca tcctgaaac gtatccctgt gcattggca tttgttttt
104161 taaaaatgt ttattttgtt tttttgtt cttattgagt aaacttaaat tggaaaatgt
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104281 agacctactg ggcagcattc ccaggggtt aggcttctca agtcacagga tgagacagga
104341 cattgatgca agatacaggg cagaaagacc ttgctgataa aatgggtgt ggtaaagaag
104401 ccggccaaaa cccaaacaaa ctaagatggt gatgaaagtgc acctctgttc atcctcacca
104461 ctcattatat gctaattata atgcatttgc atgctaaaag aaactccac cagtgcatt
104521 acagtttaca aatgccatag taatgtcagg aagttaccct atatgtctca aaaaagggag
104581 gaaccttcag ttccctggaaat tgccacccccc tctccctggaa aactcatgaa taatccactc
104641 attgttttgc acatgatcac gaagtggactg taagtatgtc cagtcgagta gcccattgt
104701 ctgccttgc tatggagtag ctttttttta ttgctttact ttccataaa acttgcttgc
104761 actttatggc ttcccttgc attttttctt gtggagggtcc aagaactctc tcttggggtc
104821 tggatcagga ccccttttgc gtaaaaaaaaaaaa caaatgaaa tcctgttagt ttctttgggg
104881 agggagaatg attttgcattt tggaaaaaaa ccagattttt catttttaggg ttttagctt
104941 ttcatttata ttccataatttcc ttccctttaaaaattttc tttttagggg aaagttaaaat
105001 atcgagattt tgggtcttaa aaaagtccgt agttattttt atatgtatctt gtgcatttgc
105061 tttccccaaa tcccaactgt cacagtgtcc tcttggccca gtggccatc cttaggatca
105121 caagaagtga acagggaccc ggtatgttcc ttctgacagc aaaggcattt tgtcaagtgt
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105301 aacaaggata aaaatgtgga caagtctaca cattttttgtt tggatgtttt tggaaaatga
105361 ctcaaggcat ctccaaata tatctaaaat tgagccattc agtagcctca ctggtagtaa
105421 tgatcaatttta attagcttac attagtcata tcaattttaa tattactgtat gattttctct
105481 ttgcctggac agttcaaggg ctctgtttaa tttttaaagc tcagtgagc tagatgtttt
105541 tcagtagtgc aacaatgagc catgcaaggg catctgtgcc agcaaatggc attaatgttt

FIGURE 4 (cont.'d)

105601 tcttaagtga atagttccact tggacggatg tggaaatactt cttcagcacc aaaaagacca
105661 tcttgccccca tgccctgccc tggtctatgg agggtgtgcag caccaatggg cagaatgcc
105721 ccacttgtgt ggttagaaga tggatggctc acagcacatg gagacaggac agcttgcttg
105781 ctatgttcaact actggggggg tggaaacccaa ttgttatgtc ctttcactg caggtca
105841 ctgtttaaga gaccctgaca ggctgacccg cacaggagcc gaaggcctgc atggccacag
105901 acattaactg gtggagatgg aatcccactc cattgaggaa gccaagtgg aacaccagg
105961 cagaaggaac aaagaagtag aaaggcattt aattttattgg aaaaaaaatg agagagag
106021 agaaagagag agagagaaaag caagagagac agagagacag agagagagag agagagaaa
106081 agagagagag aaagcaagag agacagagag acagagagag agagagagag agagagacag
106141 acagacagag agatcctaag gggatgcagt tagtataatt ggagttaaaa aagactttct
106201 gtaaccacaa acatgatttc tgaatgaaga cttaataga gaaacagaca aagagaataa
106261 tcactgttag atgtttggc tcttgttataa aagaaaaagc tttagacaaa ttaatttag
106321 cagtttaatt gagcaaagaa caattcaaga atagggcagc ccctaaacca gaggcaggctc
106381 cgagtgactt tgatgctgtc tcataaggtagg ataggattt tggcagaaa aaggaacgt
106441 atgtacagaa aatggaaagtg aggtacagaa acagccagat tggtgatggc tcagcattt
106501 ccttacttga gcccagttt aacagctggc cactgtgagt ggctgaagtc tggccgctgt
106561 gattggctga gacttggta ctgttatga gaggtaggtga cagtcgttt acacatccag
106621 ttaggttaca gttcaatgt tacagagaaa cttttaggtc gaattaaaa tatgtaaagg
106681 gaaaagtttta agctaaactc attaacacctt aagagagaga aggtgttcat tcgacaacta
106741 attatggagc accatactatg tgccagaaag tgctttgtc aaaaatagaag aacatgtaa
106801 ccaaatacag ggtgaaaacta caaagaaatg gaagccataa atgaaactat gagagacata
106861 aaccaaaaaat aaaattctaa gcccctgaac tgactgtatgg accctccct tggcaaggg
106921 cattccaaag ttaacctgaa aaatttagtc aggccatgtat aggaatgggt ggctaaacgt
106981 gcctcattgt actctccctc tttggaaatt cagggcacaac tgatcagcat tcacatcaac
107041 acagagatgt taagccccatt agaacagact cttaagatg gataagaaac atttacatt
107101 gattcttaccc tggatggc ttcattttcgca tgataaaaaa ctttggttcc
107161 acaaccctt atcttaaccc tggatggc ttcattttcgca tgataaaaaa ctttggttcc
107221 tgccaaatcg aactctttg aatctgcata tgacctggaa gctccctcc ccaagttgt
107281 cccacccccc taaaacccaaa cctatgttca ttttacatg attgtatgtatgt
107341 tccctaaaaat gcacaaaaagc aagctgtacc ccaaccaccc tgggtgcattt tttcaggat
107401 ctccctggggc tgcatcatgg gccactggc actcatattt ggctcagaat aagtctttc
107461 aaatatttca cagagtgtga ctctttcat taacagacat gaaagccaga tacagatgt
107521 atatgcaccc agtaaaaaggt cccaaaggag agagagataat atatggagaa gtaaaaaaaa
107581 tcaaagaaaat aaaagaagaa ctccctttaa ctgaaaaataa cttcaatatac ttaagtctgt
107641 gaaagggaaaat taaattttag gaccccaaaac tcatttagcc aaagggaaaat gtcaagctgg
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107761 aaagcttacat gtctccacca tattttgtcc acacccggaaat tcctagtgtaa cccgttttt
107821 ttcaccatgg caatgcacccat tgatagctt tcttacaag tgcaatgttacc caccagata
107881 aaatgcacat ctgattgttc ccctgcctt ctttatctat gttcttttat gtaaaatgt
107941 gactccctgc attttccctc tgcctcattt gtttatgtca tcttatgtta aaaaaatgt
108001 agatttcaactt agccagagaa aggcatgaat aactatttt ccctccctg ctcttacat
108061 aaaatttgtt acttctcaat atccccccctt tttcccttta aattttggagc cctcaaaaatc
108121 accttcagag aaaggcatag tgctgtctcc cgggcattgc tccttaactt tcgcaatata
108181 atttcctaaa atgattgaga ctgttctgtt cattttctc aatgcacatg cttatgtgg
108241 gggggaaaaaa aaaaaggaaa aagatacacc taggtatata ctgaatatac tttttatgt
108301 ccaagagaca ggagaaaacag agacagagag aaggaaaagag atgcacccatg tgaacccat
108361 aggaagaaaag tggggggaggg agggagatag aaactctagg aaaaagaaaaca aactatcatt
108421 agatccctcc tctgtcattt tggaaatggg aagactgtaa tttatgtatgtc ttttttttag
108481 atcgttcatctt aagccctctca tattgttcatc aatggggca ggggaaattt gttgggggg
108541 tgggttagggg gacaggacga caagcacaga ctcagatctt acactacaca tggacccct
108601 gaggaaaattt attgcacccat tgctgttcc cttttttttttt aatggaaatgtc atcaataaa
108661 tcctaaatac agccaaagaaat atgcattata aactacacgc aatataata gtaaaacaa
108721 aaacaaaaat atgagagggg tttttttttttt aatggaaatgtc ttttttttag
108781 acatggaaata agaaaaagaat atcagttgtg tagataatgg aagtaagag aaaaaattat
108841 taacatttag ataataatgtg cacattaact aaccagactt actaacaaca aacaaacaa

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FIGURE 4 (cont.'d)

108901 aacaagtat tagaaccaat gaaagaattc agtaagggac caacacacag taaatgtaa
108961 aaacaagtaa ttacattt tcccgcaat attttgcaa acagaaaaat atcctactca
109021 gaacagcaaa tgctaaatgt agagtagcta gaaaggtgaa ggacctgcat gaagaaaact
109081 agaaattcta tggaaagtacg ttgacacagg atctagagag gtggaaagac acgctgtgtt
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109201 caaaatgtt ctcattatga aaaacttaag aaagaacagt gagatatgt aacacatta
109261 acatttata gaaagttagt ataaccaaaa gctggtgcg gggctctcgag tagaaaaata
109321 ggctaacaaca taaagtgcgg aaacagaccc agagactatg tatacataat aaaaaactcg
109381 ccaacactt tccagtgctt tctatgtgcc tactactatt ctctgtgttt tcatggtta
109441 acctattatc tcaaaccctt aaaaggaagg cactgttatt tccctcatt tacagatgag
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109561 gtgagtttag cccagacact cgaatccaga gctcatgact gccatcctat gccagcttgt
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109681 caagtccgg acaatgtca cccggaggt tccacccagg tatgtatgaa aacacgtggc
109741 aggagtgggg catggtggcg cacgctgtt gccccagtagt cttgggaggc tgacgtgg
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109861 ccagccttagg aaacagagca agactctgtc taaaaaaaaaaa aaaaaaaaggt agatgaatga
109921 aagctctaaa ctcaaagggg aaattataaa agtatttagac aaaattacgg gggaaagtatt
109981 tggtaacac tggatggaa agggtttct taagcaaagg agggaaacca aaagttatag
110041 atgtaaacaa tacatagttt ataaaaataaa gaactaaaaat ctcctgtggc aaaaagcaaca
110101 gaagacaaat aataaaatgtt atacatatgt aacaaacggg tactatcctg atatagaaag
110161 agctcctta gattaataat taaaagaaca ataggggaaaa aaagcttata aataggcaat
110221 gcagtgtac ttatttagttt tcaggggagt gcagactaaa acaaccacaa ggtcttaggg
110281 attttagac tggtaacacaa ggtcatcggt tactgacaaa tggatggatg ggcaaaagta
110341 tctttcata cacagctggt aggaccgaa attacgatac aattttgtga aaggatttt
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110521 agcattgttt gtactgcaat accaaaaaca aacaaacaca tctacaaatg gggaaatgaac
110581 tgaacgttag tgaataggaa aatggctaa taaattatgg tgcattccca gaaggcaaga
110641 aatagtagca gttttagaa gggaaaatat atgagatact atttcacacg caagaatgaa
110701 aacatctgaa gatgcgaagt gttgtatgtt cagggaaaca gtgaatctca gaaacagat
110761 ctgggtgtc tactggcaga atgccttgg aaaacaatca gcaatatcta gaaagctta
110821 aaacacgtgg tctgcaccc tgcactcta cttctggaa tattccctac agtaactctt
110881 ccatgagagc acagagagat gtgtggaaaa gtcactgtc gcttggttt caacagctag
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111001 gatactgata tgccatgaag aagtttactg catgaaccac atctatctgt gtcaaccaga
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111121 atatcgatta acaaacactt acactttgcc attactgtt gtgtgtgagt gtgcattaa
111181 cacagacaga tgggtcaca gtgggagagc acaagctgtt ggctatgacc tggatctgt
111241 tctccttctc cctgcgtggc tgagtggata aggaggcct gcaagaagcg ccagcttct
111301 gacatagtgt ggactatttt tagtcattgc tttacttcca aactctgatc tggagctg
111361 agaaatctt tggaaaagag gaactccaag attgtgcaga cagtgcacaa ttcatgttt
111421 cctgaacggg agcaaggag gtttctgaa aaggacagat gatgtggagg aggaagaaaa
111481 aaatgattaa atctaagaaaa gggggaaacg atctcaccag aagccccctg ctgcaagatt
111541 atgataatgt taatgtatgtt ccagataatt gggcttagtt gtgttatctt agatgatgt
111601 atagaaatgtt ctaatttagt cccactaat tcaatctaaa gtgttagtgg ttataaaca
111661 attaaatgaa ttttatggc attttatctt aacccagatt cacaggccag aagtgcctg
111721 agaactggct gcaggggctt tgccataggt gtctgaaaca gggggggaa gcaaggaaaga
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111841 caccaggat ggaagtctgg aaacacatca tatggtgcct gagctgagag gcttgcac
111901 aaatactcta aaacaaatca cacattata aacccttaac atgacccaca gcacagcagg
111961 ttactctccc acacttgatc taaatggcat gtaagtttta ttttgattt ttcaattggg
112021 aaatagaata tataaaatgtt gtatggatat gtatataatgc acacacacac tcacacatgc
112081 agaaaaatgtt acaaaaacacc tggatggat gcaatccaggt aaaaatgtt aacattgtcc
112141 gtaccctcac cccccacctt cccaaatcaac cctccttcca tccccggtaa tgaccatct

FIGURE 4 (cont.'d)

112201 cggctttatg ataatcattt tcttgattt gtttaagggtt ccgctatgac acacctccct
112261 aaacaatttc attccaaagt tatgaattgg ccagacacgc tcctggcttc ttcccttcaa
112321 cactgcgtca gtgaggtttgc tccatgttag cagcagtttgc ttgattttcc ttgcagtgt
112381 gaattttctt tgacaatttgc tctgttctac tgtttgggac acattgagtt gttccattt
112441 ttggccatc atgagaatgc ctgttgcgag tatccaggcg cacatgcaca caaatttgg
112501 tcccactata ggatttctgg gcatacgttat ataatgtgc ttcatgttt tgacatatttgc
112561 ctaaatttgtt ttccacggag gtcttacaa cttgttctcc tgccgggtt atatgagtt
112621 tcccagccct ctggatcttc ttaataactc aggtgttgc agttgttgcgaa gtgttgc
112681 tctggggca tatgtgttgt agtagcagca gttcaactgtg atcttctgtat ttccccgagt
112741 cctaattgtt ttgaacacct tttgtatact tgctgcttat atttgtaca gtaagtactc
112801 aaacttcttgc cccattttct agtgaatgac actcccccgc taaaagattt gtaggtc
112861 cacataactag gaataatttgc cgtcaatcac tccatgactt gccttcactc tctctgg
112921 tcttcaatg aacagagtgt ctttatcttgc agggaggcaaa acttaccaat ctttcc
112981 gtgtttaata tggctgttgtt cttgttgcgaa aaatcctttt agcttggagac ctggaaaga
113041 aatcacctgt agtctaaatgc tcttacagtt ttgcctttaa ctttaagtc taatcaacc
113101 caagctgagt ctccgtatgc gcaagagggtg gagtctgatt tcttccctt ctccttc
113161 cctccgtgt ggtggcccccc tgcctcgag atgcattgtcc agtggcccaag tgccaccc
113221 cagccgagcc ctccgttagca gaccaggatc ccacatacgt gtggctgtttt gtttgg
113281 tattctgtttt caaggaatgt tttgtatgaa aagggggatg aagctaagac agtttgagg
113341 tggggcaattt gtgttcttgc tggggattt ctcacccctt gacaggatg ggtggctgg
113401 catagggaa gaaggagctt cagggttgcg ggtatgtctt gcaacttgcgaa aaaaatta
113461 aaaatgaaga tattgtctcg ttaggttgcgaa tttttttttt tttttttttt aacagggg
113521 tcgtaaaaac tggtaaaaga gttttttttt tttttttttt gagacggagc ctcgc
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113641 cacgccatc tcttgcctca gctcccgag cagctgggac tacaggccgc
113701 cccggctaat tttttgtatt ttttagtgcgaa gacggggatg caccgttgc
113761 tctcgatctc ctgacctgtt gatccaccca cctcagccctt
113821 gaggagaaaat ttgtcaatgt atactataaa cttttactat
113881 catctgttcc agggaaaatac ttaataatgt atacaatattt
113941 ttgttataaa gaataaaaaa attagaaaacc tcctaaatgt
114001 agtgaatgat gaggcatcca tccaaatggaa tagtacatag
114061 atgagatttt gaaaatatgg gaaaatgattt tttgtctac
114121 gatgcaaaatgtt ggtatataaa gcaaaatccc
114181 aaacaatcaa acatgaattt ttagaaaaaa gttcataaaaa
114241 tagtattttt tctggctcta tattattttc ttcttttac
114301 acccagatatacatacatatt ctttgcgatggaa
114361 tatcacaataa ttggctccca aaggcccttcc
114421 gaatgatcc ttccactttt ctttgcgatggaa
114481 ccaaagcagg aaatgaaaatg aagaaaaacc ttgtatata
114541 gggaaagcctg aagaatatgc tggatggatggaa
114601 tagaggctgg atacagccca tggatggatggaa
114661 ttatcttcca aaaagcttgc tggatggatggaa
114721 atatgtatc aaaagatttt aatatatttgc
114781 ccaattctga aataatctca tcccagagg
114841 gtttccctc cccaaactctt
114901 gtttgcctat tctggacatt
114961 ttagtattttt atttagcata
115021 catttctttt cttttctttt
115081 agtgcagtgg cggatctgc
115141 ctgccttagc ctcccaagca
115201 ttgttattttt ttagacatgg
115261 ctcaagtgtatgc tggccgtct
115321 cgcttggcat tcatttcttgc
115381 tttgttattt cattcctc
115441 aacaatggtgc tataatattat

FIGURE 4 (cont.'d)

115501 ttgggttagag gcctaggagt agaattgctg ggtcatattg tagctgggtt tcagatttg
115561 aggaaccact aaactgtttt ctgaagtggc tgcacatct tacattccgg tagcagcatc
115621 agggttccag tttctccaca tccttggcag cacttgttac tatctgtctt ttttattcta
115681 accattttag tggttagaat tgtatcttgc gggtttgatt tgaatttcc tcatgattaa
115741 taatgtttag catatttca cgtgttatt ggagattcac aaatttctc tggagaacta
115801 ttaattaaa tccttgcata attttaaac ggggtttttt gtacagaata ttttaaaatt
115861 gagttgttag agttctttat atattcttgc tacaagtccc ttatcagaca tatgatttag
115921 atatttctc cattctgtgg attgtctttt cactttattt atgatgtcct ttgaagcata
115981 gatctttac attttaatga catctaactt gtctacttc ttttgcgtcc tgcgtcttg
116041 gtccatatac taagagactt tgccaaaccc aagattatga agacttactt gtatgtttc
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116161 ttttaaattt atctagcagc gttattgaaa tataatgcac atactgtaaa atttatccat
116221 ttaaagtgtt caattcaagg atgtttagta ttaatttttca cacaatggac aaccatca
116281 tttagaacat tttcatcccc ggcaaaagga acactgtatc ctttagtgc cactccatc
116341 accacttccat cattccctgc ccctaggcaa ccagtaatct actttatatc tgcacagatt
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116461 tttcttcac ttgcataat gttttgaga ttcatccatg ttgtacaag tgcgtatt
116521 tcattttctt ttcatggcata aattatatacg atataactata ttttatccat tcatccatta
116581 atggacgttt ggggttgcactttaga tagttacagg tcatgtgcataatcatgc
116641 atgtacaagt ttttgcgtgg gcataatgtt ccatttctgt tggaaatatg cttaaagatgt
116701 gaaatgtgtt catattgtaa ctctctgttgc aacagtccgg agctacgcata ctgtttccca
116761 agcagctgttgc ccattttaca ttcccaccag cagtgtatga ggggtctgtatccat
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116881 atctcattgtt ggtgttgc tgcatttttgc atgtactaa tgggtcttgc gagaatatac
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117121 gtttgcataat ttgtgcata cacttgcata ctttgcata ttttcttgc tgcgtatgc
117181 ttttgcgttgc atatcaagat tccttgcata aatccaaatgtt catgaaggatc tactcctgt
117241 ttttcttgcata agattttttgc ttttgcata ctttgcata ggttagtatt tgactcattt
117301 ttttgcataat ttttgcata ttttgcata ggttagtatt tgactcattt ttttgcata
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117481 ttttgcata ttttgcata ttttgcata ttttgcata ttttgcata ttttgcata
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117601 caagattgtt ttttgcata ttttgcata ttttgcata ttttgcata ttttgcata
117661 gctgttgc ttttgcata ttttgcata ttttgcata ttttgcata ttttgcata
117721 acattaaattt ttttgcata ttttgcata ttttgcata ttttgcata ttttgcata
117781 aaatgtctt ttttgcata ttttgcata ttttgcata ttttgcata ttttgcata
117841 attgttgcata ttttgcata ttttgcata ttttgcata ttttgcata ttttgcata
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117961 aaaacaattt ttttgcata ttttgcata ttttgcata ttttgcata ttttgcata
118021 ttttgcata ttttgcata ttttgcata ttttgcata ttttgcata ttttgcata
118081 ttttacttgc ttttgcata ttttgcata ttttgcata ttttgcata ttttgcata
118141 ttttgcata ttttgcata ttttgcata ttttgcata ttttgcata ttttgcata
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118381 ctggactac ttttgcata ttttgcata ttttgcata ttttgcata ttttgcata
118441 gtttgcata ttttgcata ttttgcata ttttgcata ttttgcata ttttgcata
118501 ctcactgca ttttgcata ttttgcata ttttgcata ttttgcata ttttgcata
118561 caaaccttgc ttttgcata ttttgcata ttttgcata ttttgcata ttttgcata
118621 gaatgggtgt ttttgcata ttttgcata ttttgcata ttttgcata ttttgcata
118681 ttttgcata ttttgcata ttttgcata ttttgcata ttttgcata ttttgcata
118741 ttttgcata ttttgcata ttttgcata ttttgcata ttttgcata ttttgcata

FIGURE 4 (cont.'d)

118801 ttatatactt ctgggttagg tttgctagta tttcggtgaa aatgtttata tctatattgc
118861 taaggatat tggttatag tttcttgc atgccttgc ttttgtata atatggat
118921 gagacaatga attggaaat gttccttc tttcttaaaa gagttatgc aagatcaga
118981 ttaattctt aaatgttgaa tagaatttagc cagtgaagct atctgggtct gggcttctat
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119221 tctgtattga tttccctca ttttatgagt ctcattttc ctttttatt cattttatt
119281 tctgtattga tttctctta ttgcattt taatggttt aatcctctgg tcagttggct
119341 gaagagttgt caatttatt gctgatcatg tacacttt ataattgaat tggtataaga
119401 agacataaga agtaagggc aaccctaca atggagaaca ttaaggtaca ctcaagctt
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119761 aatgtgaatt tggcatctc gggccaactt tgctgtaaag aaagaacaac atgagaggag
119821 cctgagggaa aacaataaca atgccaatg ccaagtgttc agggttccct cagatgcct
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120181 ccccccccccc atgacagacc ttgggtgtg atgtttccct tcctgtgtcc aagtgttctc
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120361 tccttttta tggctgcata gtattccatg gtgtatatgt gccacatttt cttatttc
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120481 ataaacatac gtgtcatgt gtctttatag cagcatgatt tataatccct tgggtatata
120541 cccagtaatg ggtggctgg gtcataatggt atttcttagt cttagatccct gaggaattgc
120601 cacagtgtct tccacaaagg ttgaacttagt ttacagtccc accaacagta taaaagtgtt
120661 cccatttctc cacacccttc ccagcacctg ttgtttctgc actttttat gattgcatt
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120781 gatgatgagc attttttcat gtgtctgtt gtcataaaa cgtttcttt tgagaagtgt
120841 ctgttcatat cttcgccca cttttgtatg gggtgtttt tttttttttt gtaaatttgc
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121921 agatgttttttgc tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt
121981 gacaatttgc tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt
122041 gcccattccca gacttccaa cactatgtt aataggaggtt gtcaggaggg gcatccctgt

FIGURE 4 (cont.'d)

122101 cttgtgccag tttcaaaagg gaatgctcc agttttgcc cattcagtat gatattggtt
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 122401 agcttttga tggctgtcg gattcggtt gccagtttttatttatttggat ttttgcacg
 122461 atgttcatca gggatattgg tctaaaattt tttttttgtt gtgtgtatct gcccaggctt
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 122821 agttgtttat agtattctt gatgttagtt tgcattttctg tggaaatccgt ggtgatgtcc
 122881 cctttatcac ttttatttgc gtcttaatttga ttcttctt cttttttttt tctttttttt
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 123001 gtggaggggaa ggtcagcaga taaacaagtc aacaaaggtc tctgggtttc ctaggcagag
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 123661 cttccctccc ggacagggtt gctggccggc ggagacgctc ctcacttccc agacggggc
 123721 gctggccggc ggaggggctc ctcacttccc agaaggggcg gctggccggc ggaggggctc
 123781 ctcacttccc agatggaggg gctctctact tctcagatgg ggcggctggc gggcggaggg
 123841 tctcctact tctcagacag ggcggccggg cagaggcgct ctcacactcc cagacagggt
 123901 ggtggggcag tgggtgtccc cacatctcag atgtggcg gctgggcaga gacgctctc
 123961 acttcatccc agacgatggg cggccaggca gagacgctcc tcacttcata gacaggatgg
 124021 cggccggca gagacgctcc tcacttcca gactggcag ccaggcagag gggctccctt
 124081 catcccagac gatgggtggc caggcagaga cgctctcac ttcccagacg gggtggccgg
 124141 cggccagagg ctgcaatctc ggcacttgg gaggccaagg caggcggctg ggaggcggag
 124201 gttgttagccg agccgagatc acggcactgc accccagccct gggcaccatt gagcactgag
 124261 tgaatgagac tccgtctgtc atccggcac ctctgggagg ccgaggctgg cggatcactc
 124321 gcggtagga tctggatatt agccgttct acacagtcaa tctccgtt taccatttt
 124381 ttatgttata ttatgttctc gtgggtggc gcacctgtct ctctcatgca ctggctatg
 124441 ctgttagcatg acaatccgtc agtgggttg tttcgactt tgcgtgcct cgacactcc
 124501 tcttgggtct ctttatcata tggagatctg tggcgtctgt ttctgtttt ggttttgc
 124561 gtgcctttc tgggtttgt atcgctttagt atcgatgt tgcgttagtt gcttgggtt
 124621 ctcttagtgc tttttgtgt tgcgttgc tcttgcgtt agtgggttgg gcgttggccc
 124681 gaggcttct tttgggtctg tggtgtctt gacgttttgt tgctctnnnn nnnnnnnnnn
 124741 nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn
 124801 nnnnnnnnnnn nnnnnnnnnnn nnnnnntaga ttggacgtt atgtttttag gatattttt
 124861 gattgggtat gtttagtagt attgaggggc atgtgggtt attagtttt gtatagatta
 124921 tatttatttt atttattgtt ttttaatgtat tagatgttgg ttttaacgtg atagatgtt
 124981 ggtatagatt atagatgttga gtcgggtgac tatatggat agttaggtt ggtgtgtc
 125041 gcttctcgcc gcctctctca gcagggtgt tcggcctcga gaccaccaac tcaacatcac
 125101 gtccatctca tttcgccgtc cgacacactc atgtctgtac gcacgagtgt atcttctcg
 125161 gagcgttct gtcggcggtc ctggggggc gtgggggggg gggccggggc ggggggagat
 125221 aggacgtgga agaggagaga tggcagaggg gagatggcag agggagagct gaatcttctc
 125281 ttttcttctt tattgttctt gctagcagtc tatcaatttt gttgatcctt tcaaaaaatc
 125341 agctcctgga ctcattgtt ttttggggg atttttgtt ctctacacttcc ttcagttctg

HOMOPOLYNUCLEOTIDES

FIGURE 4 (cont.'d)

125401 ctctgatctt aattatttct tgccttctgc tagctttga atgtgttgc tcttgcttct
125461 ctagttctt taactgtat gttagggtgt caatttaga tcttccctgc tttctcttgt
125521 gggcatgtag tgctataaat ttccctctac acactgctt aaatgtgtcc cagagattt
125581 ggtatgttgc gtctttgttc tcattgggtt caaagaaaat cttaatttct gccttcattt
125641 cgttatgtac ccagtagtca ttcaagggtca gtttgcatttgc tgcattgttgc gttgagaggt
125701 tttagtgcag tttcttaatc tttagtgcag ttttgcatttgc actgtgttgc gagagacagt
125761 ttgttatggc ttctgttctt ttacatttgc taaggagtgc tttacttcca actatgtgg
125821 caatttcaga atagggtgtt tgcaatgttca agaagaatgt acatctgtt gatttgggg
125881 ggaggttct gtagatgttca attagctccg cttgctggag agctgagttc aattccttgg
125941 tatccctgtt aactttctgtt ctcattgttca tgcattgttca tgacagtggg gtgttaaagt
126001 ctctcattat tattgtgttgc gaggcttgcgtt ctcttgcatttgc gtttttaaga acttgcttca
126061 taaatttggg tgctcctgtt ttgggtgcatttgc atacgtttcg gataatgttgc tcttcttgc
126121 gaattgtatcc ctttaccat atgtatggc ctttgcatttgc tctttgcatttgc tttgttgc
126181 taaagtcgtt ttatcagatg actaggatttgc caaccctgc ctttgcatttgc catttgc
126241 gtagatcttcc cttcaatccc ttatgttgc gcttgcatttgc gtttttttttgc atgagatgg
126301 tttcctgaat acagcacatc gatgggttgc gactctttat ccaatttgc agtctgttgc
126361 ttttaattgg agcatttgc ccatttacat ttatgttca tatttttttgc ttttttttgc
126421 atcttgcattt tacgtatgttgc gatggatttgc ttgttgcatttgc gtttgcatttgc
126481 gcatgttgc ttttacaat gtttgcatttgc gtttgcatttgc ttgttgcatttgc
126541 ccatgttttag tgctccttc aggagtttgc tttagggcagg ctttgcatttgc aaaaaatctc
126601 tcagatcc ttgttgcatttgc aaggatttttgc ttgttgcatttgc actttatgttgc
126661 ctggatatgtt aattctgggt tgaaaatttgc ttgttgcatttgc aatgttgcatttgc
126721 agtcttttgc ggcttgcatttgc gtttgcatttgc agagatcaggc tgtagtcttgc
126781 ctttgtgggt aacctgaccc ttcttgcatttgc ctggccatttgc catcttttgc ttcatatttgc
126841 ctttgtgaa tctgacatttgc atgttgcatttgc gatgttgcatttgc tctcaaggag
126901 gtgttgcatttgc tatttttgcatttgc attttgcatttgc tggccctgcatttgc tgcttaggttgc
126961 cctgcataat atccttgcatttgc gtttgcatttgc acctggatttgc attctccca tcacttttgc
127021 gtacaccaat cagatgttgcatttgc ttttgcatttgc tcacatgttgc ccatttttgc tggaggcttgc
127081 gttcatttttgc ttttatttttgc ttttgcatttgc acttatcttgc tcgttgcatttgc tcatttgc
127141 gatcttcatttgc cactgtatcc ctttgcatttgc gtttgcatttgc tcggctacttgc aagcttgc
127201 attcgttgcatttgc tagtttgcatttgc gtttgcatttgc tcgttgcatttgc caggttgcatttgc
127261 ctacatttgcatttgc tatttttgcatttgc agccatttgcatttgc ctaatcttgc ttcaagggttgc
127321 ttgcatttgcatttgc ttcaacttgc ctttgcatttgc tgggagaatgttgc ttgttgcatttgc
127381 tctctcaacttgc cgttcaatgttgc atttgcatttgc cagtttgcatttgc ccaccacttgc
127441 ctttgcatttgc gtttgcatttgc gtttgcatttgc gtttgcatttgc gtttgcatttgc
127501 ttttccccat ctttgcatttgc ttatttttgcatttgc ttgttgcatttgc atgttgcatttgc
127561 gggtttgggt ggttgcatttgc ttgttgcatttgc tccttgcatttgc tccttgcatttgc
127621 ctcagatcc ttgttgcatttgc ttgttgcatttgc aggttgcatttgc cagacccttgc
127681 atcagcagatcc gaggcttgcatttgc aacagcatttgc atttgcatttgc agcaaatgttgc
127741 tgcttgcatttgc gtttgcatttgc gtttgcatttgc ctttgcatttgc ttttgcatttgc
127801 ctacttgcatttgc ttgttgcatttgc ttgttgcatttgc gtttgcatttgc
127861 gtcttgcatttgc ttgttgcatttgc ttgttgcatttgc gtttgcatttgc
127921 gtcagacaggatcc gacatttgcatttgc ttttgcatttgc ttgttgcatttgc
127981 gccccccat ctttgcatttgc gtttgcatttgc gtttgcatttgc gtttgcatttgc
128041 cagtttgcatttgc ttgttgcatttgc ttgttgcatttgc
128101 atgggatata atccttgcatttgc atgttgcatttgc
128161 gtgggatgttgc ttgttgcatttgc
128221 aatttttgcatttgc ttgttgcatttgc
128281 cacttgcatttgc ttgttgcatttgc
128341 aaatgttgcatttgc ttgttgcatttgc
128401 tccttgcatttgc ttgttgcatttgc
128461 ccttgcatttgc ttgttgcatttgc
128521 ctcacttgcatttgc ttgttgcatttgc
128581 aagagccaggatcc ttgttgcatttgc
128641 gctgttgcatttgc ttgttgcatttgc

FIGURE 4 (cont.'d)

128701 acctaagggc ccctggtgca gagctgcctt tttgctccag gagaaaggca ttctcggtgcc
128761 cttgggtgggt atctttaat cactgcagaa tagtttactc ctcttcctg aaattcttat
128821 actgagcaaa aacgggagtt cactctgggt ttagtgttgc cctgtgagag cagcagtct
128881 cacagctctt atgtttctaa gtccatttca ttgtttcatg gagaatgtg tgacgatgac
128941 acaaccgggt ttcctgtcggt gcctacacag aggattgaga atgagctcca ttctaaaaga
129001 gtgcagtgtc ctatgtggct ttagaagaga cacatgtgt tggacttggg ctctgtcact
129061 gaagctgtgt gaccaagagt tgccctgacc ccctcacatg taaaatggag atgataatgc
129121 ctacttctcc gggcatgtgt gtgcatttgg ggagagaatg cagggaaagcc ctccacacgg
129181 cgcctggcac gcagtaaatg ccaatggatg ggaacaatga tcattatcat tatgcctata
129241 gtcatactg gcctgaggggt tctgtcctc cctctaagcc tagctctgag agcatcttat
129301 ctctcagcct gtcctgtcg cgtctctcac tgcaggagtt ggagcaggta gcaggtagct
129361 aaggcgggg ctgcttctca gagccttttag agcagatgag gtcatatcat gaccacttt
129421 taaactattt cttaaaggcca agccctgtgaa cgcagcccat agactgtga atagggggag
129481 cccagatctc ctgaaaacag gtcctggaaat agtttctcta gctctcggtt taaagcattt
129541 tggttttaaa cttaactttt aacacagatt attatattt tgtaaaaaat aataaaaaatt
129601 aattactaga aaaatgaaat tttaaaaacc caaagatatt caaaatccaa gtctttttt
129661 ttcttatttag gtgaaaatg cacaatttgc ttctgttaag ttgcataaaa agtttctaaa
129721 accccctctc tgagtctttt tttttttttt tttttttttt tttttttttaag
129781 agacagggtc tccctgtc tcccaggctt gatgcaggta gatgcaggta gcatgatcat agctccctgc
129841 agccttgcac ttctaggactc aagtgttcc ccaacccatc cctcttaatg agttggact
129901 ataggcacaac accaccacac ctggtaattt tttttttttt ttttgagaca gatcttgc
129961 ctgttgcccc ggcggggta cagttggatg atctcagtc actgcaagct ccactccca
130021 ggttccacgccc attttctgtc ctcaacccatc caagtagctg ggactacatg tgcccacac
130081 cacatccacg taattttttt tttttttttt agagacgggg ttttactgtg tttagccagga
130141 tggctctcgat ctccctgacat tttttttttt tttttttttt ttttcaat
130201 tttttgtaga gatgggggtt ctctacattt cccaggctt tgacaaaatc cttagactcaa
130261 acaatccctcc cgccttagcc accccaaatgt ctggaaactat aggcttcaac ctctgtactg
130321 atctaattgc agacctggac gcaggtagtt ctcaacatgc actcaaggcca cattctgagc
130381 tgtccaccccg acagcacttc caggctgaga catcttcatc cttagcttgc gaaactgggt
130441 ccaaaaagga atattaacgg gataacctcg catcctcccc tggggatgtt aagccagcca
130501 ggaggggagg cttgaggccca cagaaggccaa gctgagtatt aatggtgaca ataactgtt
130561 tcattggcta tggggtaat tctggaggca ctcaacatcc atcatctttt atctacctt
130621 aggaaccaggc taatctttt ggcacccatc ctctgaggag ctggatctt tcagtttcc
130681 tggatgtaaat aagtctgtac atgcggaaatt gcaacatgcc aagtttcaaa aagagaatag
130741 ttctgtctcc cctggtcccc aagggtttt aagaattttt ccaatggctg atgaagtct
130801 gggagcacag caggatgaga aagctggac tgacggcaga agagctcagc agggcaggtt
130861 ccaaggactg acacagtgc ttaatgttgc tggatcttca cacagatgtt ctggatctgt
130921 gggccacag taatggccct ctgacattca tggatgttgc aagggttagt gtaatgtt aagccat
130981 agatataagg ggtgtatcata tggatgttgc tggatgttgc tggatgttgc ccccccctcat
131041 ttccagggtt tcaagggtt tgggtttt gcatgtgtt ggattaataa ttggccacag
131101 ctggacatgg tagctcatgc ctgtatccc agcaatggt gaggccgagc cgggtggatc
131161 acctgggtc aggatccca gactggctg gccaacatgg caaaaaccctt tctctatgaa
131221 aaataaaaaa attagccagg ctgggtggct acctggagcc tggatgttgc gctcccttag
131281 aggctggggc aggagaatcg ctggaaactcg ggaggcagag gttgcaggta gctgagatcg
131341 tgccactgcc ctccagtttgg ggcaatagag tgagactctg tcccaaaaata ataataataa
131401 taataataat aggccacaaa ttctttgaca ttctttccat tgagagatgg gggggctgc
131461 atccccaccc ccaccccccagg agtctgggtt ggctctgtga ctgttggac cagtagaata
131521 tggatgttgc tacagtgtgc cagttccatg gccaacatgg gaagagattt gcaacttcca
131581 ctggatcttgc tttttttttt tggatgttgc aaggccatgg tggatgttgc aatgcagc
131641 cccagaggac accattctgt gagaaggctt aaagaatgtt gatccatgt gacagagagg
131701 ccaaggagcc tagagggtgcc agacacatga cagaagaagg cccagcccccc ttcagctgt
131761 gctacatggc cacagatgaa ctggccaggta aaggctttcc taaattccctg acctgcaaga
131821 gcatgaacaa aattaaatgg ctgtttaaag ttaccaagga ggttggttt acagcagtag
131881 agagaatggc acttgcgttgc cagttctct atgctcaccctt tccaaacccatg gctgtccctg
131941 aaagtgttgc gaatgagatg cctcaatggg tttccactg ggaactctga ccagaaagga

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FIGURE 4 (cont.'d)

132001 ggaaatgtgt agaggaagga gaggccaatc actccccaga acctttctac tgagggccgc
132061 agctcctcca agggtgctgt ctccaggata cttctgcatt actcccacaa cttcccccct
132121 cccctgtcat caggactagt ggtgctgatg gccccgcaact ctgcgttgc cctctgcaca
132181 tggggccaca cctttgtat gccccttgc taaaccctca tcctagtgtta ccattctgttt
132241 tttgccaaga tgagctgaag ggtctgcagg aagaagggttcataaccga gaccttggt
132301 agatgtcag gagggagtt cagagccagc attttctaacc taccagaaaa agagaagtgc
132361 cctgtccaca accttccaca ttctgttgc cacaggaata aatgaacttt gtgattttt
132421 ttcctgtcat taggttaggg gacaaaatc ctcttaactc catgttcaga aatattctgg
132481 aaatttggtt tcttaagtca aattccacat cagaaacgtat gggatgtggc ctggtagctt
132541 aagaacagca ggtacagaat aactttttc tccttgc tcaatgttca agtataaaaa
132601 tggggtaac agtcatctc tcctacctac cccaccaaaatc ttcgtgaaga acacactagc
132661 tacagggaaac ttggcaaaga gaaagagttt gacgctgtca tggcagaagc agtggcttc
132721 tcttattacg gtggctgcct ggccttgaa ggcttatctt tccaggttta aactgagac
132781 aagctgaagg gttatgactc gaagtggat aggattttgc caggcacact aggaggctgg
132841 gtatgcaagg tgggttcatc agggagcctt ggctgacccat gacggcttgc tccgtctcg
132901 atgctctgtt ccagggtcgc tgggtgtccc taacaaagaa tggctctta actggggct
132961 gcacatctgg gcatcttagt aaggggaaaca gatttggat tcttcttctt ttcagcggaaa
133021 ggtgagactt cgggttgaag aactggtaac tggatgttgc agggttgc atggctctc
133081 agagctggca ttgggggtgc tccttgttca ccccttccctt cccttagggccc acatggggca
133141 ccctgagctt gcctgagccc tactgtgatc tcacggaggg caggctatga actagaaagt
133201 gatgccacac cctggcaact agagaagtgc ccatccaggg gcatgttcca taggtatctg
133261 cctgtatggc ccctagttac ccactgacaa aaagaggggc acaaccctcc cctgtagaac
133321 tggtagcgcag agtgaggaca tgacgacagt gaggccttgg gccacccgc ccaccctcag
133381 gggcttgtaa gaatcccaag gaaagtcatg ctcctgtcag tgggtgtcgag gcacaggcga
133441 gagccctccc acttcccgcc cctgcacagc agtgcatttc ctcctatgac tacagtgtt
133501 tgagagacagg aagaactttc ggttcttggg aagcccgggg cagaaggggc ctgagctgt
133561 caccgcgtcc atccctcagg acaacctcga catgcgggt gatccagcgg tagcaggga
133621 actcgatgtt gtcgggttgc ggcgttca gcgtatgtt cttcaaggatc cagtcgtcat
133681 tcagccagta cttgcgttca tcgattctga ccagctggat ctcggccagt tcctcggttca
133741 cagtcacgtc gtatgaatcc acctgggaag gagaacaggc aatcaggcca tgcgtggct
133801 cctgagcctt tggtagcgttgc gtttgcggat gtttgcggat tttgtcaccat caaggtatgc tgctgtggca
133861 caggactac gttgaatgaa aagacttaa aaaaacagca ggtgcaagat actctgacat
133921 tcgtgtgtt tctttagaagc aggagatgaa agtcccattt gaaagatgtc ctcactatac
133981 caaaaggaaa gtaacactt tttcatcaag gttggaaatg tgaagccaaa gggaaatccat
134041 acaaacagat cttgtacaat gaacgcttac ctcccgagtc acttccctgc ccagttaccc
134101 gccctagccc aagcccttgc gccttacatc atctcacat gattcattca atgcagtatc
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134401 actgaaggcc tggccctgac aaggctcgt gctacgaccc aggcagggtga aagaaatgg
134461 caaatcctgg gccctgcct tgaggagaga gaatccagtg agccaggatg tgcgtgtgt
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135181 gcaatggatg gcagacagga agttggatg agggctcgttgc cattgcac acgcattctg
135241 atgaccagca ggttggaaa gccccggact cgatgccttc caaggcatgt tctttttat

FIGURE 4 (cont.'d)

135301 tttgaggtgg agtctcaactg tggtgcttag gctggagtgc agtggctcga ttcggctca
135361 ctgcaaccc tcacttccagg gttcaagtga ttctcctgcc tcagtctccc aagtagctgg
135421 gactacaggc acctgccacc acatctggtt aagttttgtta tttttagtag agacagggtt
135481 tcaccatgtt ggccaggctg gtctcaaact cctgacccca agtcatccac ctgcctcggt
135541 ctcccaaagt gctgggattt caggcatgag ccactgtgcc tggccctgc aaggcacttt
135601 ctaagccaga ttcatcaacc cttaacttt atccctggcg gcagaaccta gagttctca
135661 catgatggca aagtggaaagg ggcgagggtt atcatcctt gtgcagcgc aggcatcccc
135721 attccatgcc ctgcctccaa gctgccagga ggaccctgg agggcttcct aagaggaatg
135781 ggaaccttgag tggttccac aaacctcctg gctctgaata ccgtgagcag tttgggggtgg
135841 ctgacgctga ggccagacgc ttgtgttcag aaagcggaag cttccctccct gtgctctgt
135901 gtctaggcca gaggccctag gaacagtttc tgatgacaga ggagccaggc ccatgtgg
135961 ggtatgacatg tcttgggtcc agccacatgt ggaccagcct cggccccacg acaatgcccc
136021 tcctgcaggg agagtatcag cctcatctgc cacctctgag aaagccctcc tgccacagct
136081 tgtcctcagg agagcaggc cacacacaag gcctgccc tcatggacag ggtggcagg
136141 ttctgatggg acaggagttt cagcatctca ggggctcggt cccatcttga ggagcagagt
136201 ggggctgag tggcccaagg ctggatacgc gtcggccctg ccccacgcca ggcctcgat
136261 gccacaggga ttacagagg ccttagctgc aggttgtgag ccaagacaga gattcctgat
136321 cccaccgggg agtggggaga gggcagttag gggtagaaagg ctgcgtggc cctgggtct
136381 ggagctctga attcacatcc cagtttcagg caagtagctg gatggcctgg gcacattgt
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136681 tgtgccaatc cgagtaactt gggcacaat gggagggaga aactgaacct gtgaccccaa
136741 actccttcac tcaaagccca gaagaactc ctgaaaggct ggagacaggc ctgtgaggac
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136861 gtgaggactt agggggggcc accagggcc cgggctgtt ctgagtgtgg ctgctgcagg
136921 ggaagtagct ttcttatggc tctgaggggc tggagagggga ggaaggtgtc cccaggggat
136981 agatgacagg aaagctgggg tgggtggga ggagctaaca gggacactct catgggagg
137041 aggctcccaag taccttggac taagagggga gggagatggg ctgaggaggg attccagg
137101 tggcagggtc ccacagggag ggcccgatgt ctacctgggg gtgacgaccc acacgaag
137161 actgagcagc ttctctgagg gaggacag tgggtgacc ctccagcaca cctgtgg
137221 agtcacaggc gactgggaca ctccctggccc cctgcctac ctacacctgc aggcacctgg
137281 tggagagggc ctgagttca cttgggtga aatcaactt cagatttaca aggactccat
137341 ctgcctatctg acaggactt ccacagcagg agggggccag gcctgcagtc tggctgg
137401 atggccagcc cagccactt cctgggtctg gcttcaagcc tgaatatgtt aagaggtgaa
137461 caagggcag agggctccag ctttgaccac actcaggag taaaagacaa agcttgcatt
137521 ctgtgggtct aacatcccaag gggccactaa tggagaatg acagataaaag gcctccttcc
137581 aggaaaatac cagggtcaca tgtgtcaaact tgcaaaatattt cttcggagg tttgtgg
137641 tacaatggcc accttcctcc ctccctctg ggcaagtttactggctga tgctatattt
137701 gtctatttgc tgtgacacat taaattctca ggtgacacac tgaattatgg tgggactat
137761 caacagtggc caccggggca caggccctca ggaagcactg ggcctggaa tggccgagcg
137821 agtgatttac ctgctttaca gatagaaact gaggctcaga gagcaatggt ggcctcaaga
137881 tcagaaccta cacctgtgtg atggcaagc ccaggttctt cccacagtttcccaaggcc
137941 catcttgaga aaagccctga accggaagct agaaggccca gctttgagcc ctgggttgc
138001 ccctggatgg agttaaagg ggcaatgtgg agtggcatgg aaggacaggg aaaagcttca
138061 taagagggta ttccaggcag cttttagggg ctgatcagat ttcagagggc agatgagtag
138121 gaggatgggc atgggttagca catttcagat gtggggactt gggagggcag ggtccccgg
138181 ggattcacac gtggggaggag gaaggctgga cacagtttctt ggggacagaa gtgggtgg
138241 tgggtgtca gatgctggag agaaacaagg gaaacctgca actcaccggc ctcatttca
138301 aaggggccac ttgtctgatt ttgttgcattttaactt ttatttgcatttgcatttgcatttgc
138361 aaagtttttgc aatatttgc caaagagttca gttggctagt ttcatgtga gctttctatc
138421 agcattttag gaaagttttc atctgtctt catcagatct ctgctgttgc tgggacagg
138481 agacgatct ctctgcggaa gcaaggatgt gtgcggccacc cccagactac ccatcttgg
138541 gggggactaa tgaggggctg tgggaggagg aagctgtaga gcagagaggaa agattgggg

FIGURE 4 (cont.'d)

138601 ccagacaaaa cagagactcg ggatgagaga gggggaggct atgggaaaga gctgaggaaa
138661 acaagggacq gagagagggg ttgggttagt ggatagggag accaaggggc agagaagggg
138721 gaaaatgtgg gacagagagc cgaggattga gggagcagag aaggggcctc tgagaggtgg
138781 ctggaaagaca gagtgttagag gaaaatttcag agcaaaaaag aaggagaggt ttagggtag
138841 agagcagaaa cggggggcat ttaggaaact gggagcaggg gaaggaagag gaggcagaag
138901 agggggcaga atgttagggaa aagatggctc agagggggag actggagat gagagacgga
138961 ttgagggtca taccaaagaa atatttatgc tccactaata tattccatt cacaagaagg
139021 aggtattcta gaattaattt ttcatgaatg taagaatact cactgactta agaagcatga
139081 atcattataa cactttcta cacttgta acatattcaa gtatcatata taaaacacca
139141 cgctattgcc cttagcttc taaaagtac cagcacagaa tgaatggc caactaagat
139201 ttctcagaaa tcttcagatc tgtagtacgtt atcgtatccg atctgaatta ctttaattt
139261 acagagttaa agaaataaaat caacttgtta aatttgccta gacttgggtt agcctctgga
139321 aacagggcca ttctgtgtag gatcccggct ttctccagca gacagtggg agccaaggaa
139381 gacacaaccc tttataggat aatcccaccc gcaaggact tgattccag tcctgactga
139441 atcaactatgc ggaactctga tgagaataac aagggacctg tgactcaactt tatcaaggaa
139501 aaaatcagtc ctgtccattt tttgactgaa ctatgcctg gaggaggggg gtgttgaccc
139561 gccaataact tggaaatgtat taaattgtgt gggaaataacct ttattgttat tgttatcggt
139621 actactgtta acaatacaga ttttaacact tttccctgtt aatgggata accttgcctt
139681 ctcagcaagt acttcctctt gggtttctt tttaccttta cccaaaaagg atgattgtct
139741 ttacagatac caagctgggaa gaatgaggaa gtatgtctgg gctggcaag agaaaagtgtt
139801 gagtaactttt gcatcaacag gaaccttctc aaaagctgtat ttttcaagg aaactttcag
139861 ccttagctgg ttccccaccc tgccgttagcc cccacccccc accacccccc gcccccaccc
139921 tgactttagt ccctctcaac ccaatggaaa tgtgacatgc aaatctctcc taaaatttgc
139981 ccctgggatt ccggctgagg tggttattaa taatgtcatt tgaatgactt ctcagggttag
140041 gggaaagacag accggagaggg ggagatagt gacaaaaacag tgccttcaacttgc
140101 agagcccgct atggccacgt tataatgtcc cctgcaggag gaaagcacac acgggggtgcc
140161 cgtctgtgc agtgtgagca caccatggc ctgtgtttt agaaccttat gatgtgtgaa
140221 ggagaatggg gaggagggaa cacttacaaa gggaaatgttag cctgttccctt gtccttctcc
140281 cccagggtgtg gggatccat gaaataatgg aagtaaatgaa aggtgcgtca gaaatggcag
140341 agggtgcat caccctaaat ggacacaca ttaactccca ggcacccgcag tcctcagggt
140401 cagtcccccc actggggca ctaacaaat gaagggtgtt cttgtactca acacctaact
140461 cttcttgaag ggagctcaag ccaggatgtc agtgaacttgc gctgaggggcc atgtcggt
140521 acagcgaggg tatgggctcc tggataggaa tcgagcccat ggagagctt gaaatccagaa
140581 aaagagtagt ttttacttac ttttaggtct gcacacctaa aacacaaatt ttatccaaga
140641 gtaatcagtt gaaacatgaa cttggcggtt gtattgtcc attatgagca atttcacaag
140701 gtttgcataa ataataaaact aaatggtag aaggcagctt ggtaaagtct aaatctttt
140761 ggtccagttt ggagctgggg tgggtggaa gggaaatgtat attccctgcg caccctgcagt
140821 atgtctgggat cattaccat tcattacgg agcgcttccctt ctgtgcagg tactggatta
140881 ggcacttcat taaaggctca tgagaaactg cgacctgc cttgtcatgg aaaagagtcg
140941 tggggctggaa attcagggtcc agatcagcat taggaacttag cttccaaatg ctgagggtcc
141001 cctcgctcc tcacacccat cgtggaaatg tccctgggt tacattctgc tgggggggg
141061 tgcagccctt ccatttagga aaaggctctc ctggcctggg ttctgttcccttcccttaat
141121 ttccctctggg gactgtctg agaatgtaaatg ctggccagg ggcgtctgag ccaccagatg
141181 ggcctgggtt caccatgac tcattggacca gactgaaggcc aaccctccat ttcagctgg
141241 ggaaactgtag gcccagacag acggtagatg gagctgggtt tcattgtctgg acagaactca
141301 ggcctctggaa cccgctgacg tgccacccctt cccacggctc acagctggct gctccggaggt
141361 ggcctcagag ttctgtgagc atgactcatc tgccctctcc tccctgtgcg acctgcagaa
141421 ggagcctaag gaagaggtgg cacaagaaac gcccggccatg gaaggggctt ccggagcc
141481 ggagcccaaga ttctgttagt gaggggaaac cttggccctt ctcctccat ggaagacgccc
141541 ttgcaggccgg cacgcgggaa gtctccgttt ccgacagggg tcgcggccgc cgcgagggt
141601 cctggacgtc tgccaccat ggtacccacc ggcctactgg agcccaaggc acggccccacc
141661 gcagttctgc cttccctgac agggtctgg acaccccaatg tcctgtccgg gccggccca
141721 cggggccctcg gggcccccgc ccaggctctt gccgtccaaa ccgggtcccg gacgcaccc
141781 agcccgccgt ccaccctgtc cccggccgc cttccctgcg caccgtcgaa gtcgtttag
141841 aagggttgcg ccaggatgtc cttctgcgtc cagccgcg agcccaacgag gtcgtttag

FIGURE 4 (cont.'d)

141901 atgtgtcgt cagtgcttc accacgggt gaagtaacgg ccnnnnnnnn nnnnnnnnn
141961 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnn
142021 nnnnnnnnnn nnnnnnnnnn ntttttggg ttgttgttgc ctcttgc ttcgcagcgg
142081 tcctccgccc cctgggtgaa gacaagtggg cgccctgc tggccatccc atctggagg
142141 tgaggagtgc ctctgccccgg ccaccccgcc tgggaagtga ggagcgtgtc tacccagcca
142201 ccacgtctgg gaggtgagga ggcctctgc ctggccgccc catctggaa gtgaggagcg
142261 cctctatctg gccacccctt ctgggaagtgc aggagtgcct ctgcccggcc gccacccgc
142321 ctggaggcg aggagcacct ctgccccggcc accacccat ctgagaggca aggaccac
142381 ctgcctggcc gccatctgt ctgggaggcg aggagcacct ctgcccagcc gcccggcc
142441 cttaggagggtg aggagcgcct ctggccagcc gcccacctg ggaggcgagg agcgcctctg
142501 cctggccgccc ccatctggga ggtgaggagc gcctctgccc agccaccacc ccatctggga
142561 agtgaggaggc gtctctgcca ggcggccccc tctgggaagt gtacccaaca gtcggaaaga
142621 gacagcggacc attgagaacg ggcattgtat acgtggcg tttgtcaaa aagaaaagg
142681 ggaaatgtgg ggaaaagaaa gagagatca gttctgtact aaaaaaatt ctctgcctt gggatgtgt
142741 gacataggag acaccatttt gttctgtact aaaaaaatt ctctgcctt gggatgtgt
142801 taatgtacaa ctttacccccc aacccctgtc tcgctgaaac atgtgtgtc tcaactcagg
142861 gttaaatggg ttaagggtgg tgcaagatgt gctttttaa acagatgctt gaaggcagca
142921 cgctcattaa gactcatcac cactccctaa tctcaagtac ccaggacac aaacactgt
142981 gaaggctgca gggacctctg cctaggaaaa ccagagacct ttgttcacct gtttatctgc
143041 tgaccttctc tccactatta tactatgact ctgcccacatcccctctc agaaaacacc
143101 aagaatgatc aataaataact aaaaaaaca attaattaat taataaaatt tcatatggaa
143161 ccaaaaaaaa gcctgcattt ccaagtcaat cttaaagccaa agaacaag ctggaggcat
143221 cacactacct gacttcaaacc tataactacaa ggctacagta accaaaacag cacgtactg
143281 gtacccaaac agaggtagatg accaatggaa cagaacagag ctttcagtaa taatgccaca
143341 tatgtacaaac tatctgtatct ttgacaaaacc tgacaaaaac aagaatggg gaaaggattc
143401 cctatttcat aaatgggttt gggaaaactg gctagccat aaatgggtgt gggaaaactg
143461 gctagccata tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt
143521 ttcaagatgg attaaagact tacatgttag acctaaaacc ataaaaacc tagaagaaaa
143581 ccttaggcaat accattcagg acataggcat gggcaaggac tttatgccta aaacacaaa
143641 agcaatggca atgaaagcca aatttgacaa atgggatcta attaaactaa agacttctg
143701 cacagcaaaa gaaactacca ttagactgaa caggcaaccc acagaatggg agaaaatttt
143761 tgcaatctac tcatctgaca aagggtcaat atccagactc tacaatgaaac tcaaacaat
143821 ttacaagaaaa aaaacaaaacc aacccatcaa aatgtggcc aagggaaaaga acagacactt
143881 ctcaaaaagaa ggcattttatc cagccaaaag acacatggaa aatgtctcat catactggc
143941 catcagagaa atgcaaatcat aacccacata gagataccat ctcacccag tttagatgtt
144001 gatcgtaaa aagttagggaa acaacagggtt ctggagagga tatggagaaa tagaataact
144061 tttagactgt tggggact gtaaactagt tcaaccattt tggaaatgtc tggcgatt
144121 cctcagggtt cttagacttag aatattttt tgaccccgca atccatttac tggatata
144181 cccaaatgtt tataaatcat gctgtataa agacacatgc acacatatgt ttattgtggc
144241 actattcaca agagcaaaa cttggaaacc accaaaatgtt ccaacaatga tagactggat
144301 taagaaaatg tggcacttat acaccatggaa ataccaagca gcccataaaaa atgtgatgg
144361 catgtcctt gttagggacat gatgtaaatc agaaaccatc attctcagca aactattgca
144421 aggacaaaaa accaaacact gcatgttctc actcataggt ggaattgaa caatgagaac
144481 acatggacac aggaaggggaa acatcacaca ctggggctg ctgtgggggg ggggggttgg
144541 ggagggatag cattaggaga tatacctaat gctaattttt ggttaatgg gtcggcc
144601 ccaacatggc acatgtatac atatgtact aacctgtcat ttgtgcacat gtaccctaa
144661 acctaaatgtt taataataaa aaaataagct tataaaatgc tttaatgtct atataacttt
144721 ataactctgtt aagaataata gatttgcattt atgtgtcat ttgttaggtc tattaaatgt
144781 taacattttt cacaatacc accattttt aagtatgtt ttgtatcat cgggttgg
144841 ttttcacccca aactctgtt gatgtactt ttgtttctc atttgaccat gctcaatctt
144901 tagagaccat gctttctt cttttttttt cttttttttt tttttttttt tttttttttt
144961 aatcaatgtt aacacagtca caactatgtc tttttttttt tttttttttt tttttttttt
145021 cttattctttt ggaacaagaa gagggcagggt aagaattttttaa ttatggcaga attctgacc
145081 taatcaatgtt ctgtttctt tttttttttt tttttttttt tttttttttt tttttttttt
145141 atcatttccat atgattcctt tttttttttt tttttttttt tttttttttt tttttttttt

FIGURE 4 (cont.'d)

1000-2000 bp

145201 tcactgaatg aaaacctgaa aattggaaa taaacattt tctgaaaaaaaaaaaaaaca
145261 atgaacactg acttctcta tttctcaaag tcatctcaa gccatatgag gattaccaca
145321 aacttcagg tgagaaaatt ctttgcata ttagaaagtgc catgcaatt agttgatgct
145381 attataatta gtctcaggta tcacaaatgc ttgaacccta aatctaacac ttcaaaggaa
145441 agcattattt ttcattcatt ttacaaggta cacctccctt cttccccaca tctttgtta
145501 gaatctggac cctgaaggta gaggaccaag attcaaattc cagccatc agtactagct
145561 atgtgatatt gggaatgta cttgatccct gcttatcta ctttctgcat ttattaaatg
145621 gggatgagaa taatatactac ccaataaagg tgcccaatgc agtgcccaac agcatgaagc
145681 ccaataaaagg ttagttaaca tcacatccat aattgacacc ttttagtatt agattttcat
145741 catccccagaa cattttcctt cttaaaggct ttttcttctt aagtggact ttcttgata
145801 ctgattgcac tcctcacaat cttgaaaacgt tcaaacacac aagatgccat ttaggagaca
145861 ttgaaacttg ggttccctc tctgtaaaac tgagtaatga cagtcacctc ccaggcgtgt
145921 tggtaagaatg aatgagctag agtatgtaaa atatcttagc acagagtgc taagaaatatta
145981 ttagtccag ccaagcgtagg tggctcacgc ctgtatccc agcacttagg gaggccaagg
146041 caggcggtc atctggggtc aggagttcaa gaccacctgg tcaacatggt gaaaccccggt
146101 ctctactaaa aatacaaaaa tttagccaggc gtgggtggcat gtgcgtttaa tccctagctac
146161 tcaggaggct gagacaggag aatcaacttga acccaggagg tggaggttgc agtgagccga
146221 gatcggtcca ttgcacttca gcctgggcaaa caagagtggaa actctgtctc aaaaaaaaaaa
146281 aaaaaaaaaaa gaagaagaag aagaaagaag gaaagaaaaga gagagagaga aagaaagaaaa
146341 gaaagaaaga aagaaagaaa gaaagaaaaga aaaagaaaaga aagaaagaaa agaaagaagg
146401 aaagagacag aaagaaagaa gggaaagaaaag aaagaaagaaa agaaagaaaag aaagaaagaaa
146461 agaaagaaag aaagaaagaa gggaaagaaaag aaagaaagaaa agaaaaaaag aaagaaagaaa
146521 agaaaaagaa agaaagagag aaagagaaag aaagaaagaaa agaaaggaga gacagaacga
146581 agggaaagaag gaaggaatta tttccctttt tcccaccac gcctcaccac aaaccttgg
146641 gtggggataa catgtaaaag tgaacaaaac tgagaagatc acatcgata tgcactcagc
146701 ctctagtggtt agacacaggg aataaacagg aaaaagttaaa aacagacta ggttagtggt
146761 agtgcatttgcgcataaaggagg aggagaataa ccagtggctc tttcatgcag
146821 agaatcagg tagacccttg gggagagacc cgcactcaga ctggatggaa attattttt
146881 ttatgcgtgt tcagtttagga gttaggtgc tctgtgtga ttatctaattt ttgggaggaa
146941 caatgtcaga cgggtttcaaa gatgatgttggc ttcctcttga aaaaacaaga
147001 atttaggttca cactaatcac aaatacatca agcattttt agtctgtgt gtgtcatgg
147061 ttgaagtgttca tctttccact tagtcaagaa gttccatgttga gaagaatgtc ctttaacttc
147121 ctaagtgcac cagatgtttagtta gaaactgagcc atggatggta aatctactta agaaagcaca
147181 tgcctatggaa agatagcatt ggctgccttgc cttacttgc atggcacacgc cttgcaggaa
147241 gggaaagaag ccaagaggca aaaggcttgtt ttgttcttga aaggcacaag gaggttggaa
147301 atttagggaa actcaccacaa aaatgactca gctctgaact cagactcaag aagccacaat
147361 aagcaacatg aatggaaactg gagggaaaatc aaccaggcgt agaaaacacaa atgttgcata
147421 ttcttactca tggggactt aaaaacatgc atttcaaggaa gaatagaatg atggtttatca
147481 gagactggaa acatgttgtt gttgggggtgt taagagatgt tgcttaatgg gtacaaacat
147541 atagttatgtt agaaggatata agttctaatg tttgacagca gaggatggaa actatagtt
147601 acagtaatattt atgttataact cccaaatagc tagacaggaa gatttggaaat gttcccaaca
147661 catagaaatg acaaaaagttt gaggtatgg ataccctaaa tatcctgact tgatcattac
147721 acagtctatg cgtgtacga aataccatat gtacccata aatatgtaca aatattatgt
147781 atcaataaaa atttttaaa agaagctgca atcaacattt catcattatc tttcagcag
147841 catccttaca aagttacaga gacatcttac gatgtatccc tcttcctctt aatcttcctt
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147961 taaggaaaag tctgttaggg ctatgtttttt cctctgtctt agatgttgc tggaaaata
148021 gagtcttgcac aattgttttca tttctcttca tcccaatgtt atatgttttt
148081 ctttttagtg ctcagtggta gacagggtttt aattctgtttt agttatgttgc acaggccaga
148141 agaaactgaa ataggctata aatgtttgaa gctggccaaa agaagatgttgc acatccatcc
148201 ataccctctg gaggaaatgtt actgtcagga aagtcaattt cctgaccacgc aaaaggacca
148261 gcactatccc gtcctgtca agaagtacat ttgtcctgtt gctgtcatgg ggacagtggc
148321 tccaggcctt cctgtggaca tgccacaatg tccactccat gagtcaggag atcatgcgg
148381 cagctggggg gaacttaggg ttgctctttt gagcttagcc ttatgttgc tggctgtctt
148441 gccaaccaca aaaacatgatc tttcatagca agttgcagcc tccctggaaa cttaaacctac

FIGURE 4 (cont.'d)

148501 ctactaggat acatttacag ctgcctttct cctggcatca ggctggagat caagaaaatac
148561 ataaaacata gtcctgccc tcagttagct cagaatatgg tggggaaatg gagacagaag
148621 caaatactgg tggacaagt gacgatggc caaaatatgg gcttaaacaag aggttgtgg
148681 agctcagaaa aggagcaact cactctgcct gaaagagtc tggagggctc cacggaaaaaa
148741 gcaacatttg tgcaggagga gattagaaca cagaggagaa ggatagcgc actccagatg
148801 aaggaaagga aatgtgccaa gatttcatgg gaatgagaag atgtaaactg ctcagggaaa
148861 accatgggtt aagctcttca cagttggctga agcatgggtt gattgtcagt ttgtctgtc
148921 aacttggtca ggctgttagta ctcaactatt caaccaagca ctgtatctgg tattgtctgt
148981 aaggatattt gtatcgcaa ttaacctcta caatcgttg actctattta aaggacatta
149041 ttctgtacta tctgagtggc cctgatccac ttcatcccaa aggtaaatga ttctccaaca
149101 gtgttctcat ctacatctag ggcttggaaatgtaaggatgg agggaaatat gaaaaaaca
149161 caagaaaaaa gtcataatcata cagaacttcc agccctgtt ttgttagttt acttttatgtt
149221 caaccagtat gtctccactt ttatctgtt cttttaaagaat tttcatctga aaaagggaaat
149281 tcactcttca ggtgttggaa atcaattatg agagaagcac ttacagaatg actatctgaa
149341 gagctctgca gacattctcc agagaaaaac aaccataacc ggtggaaattt aaaaacaac
149401 aaaataaaaaa aatgttagag tattggaaat ttttctaaagg gccgacagca aatgaagaaa
149461 tccaaagaaag cctaccaatt tcagtgagag gagtggaaatg ctatgtgtt gagtctatgg
149521 tggtaaattt ctgttcat tttccctctc ctgcaatcag ttcagtggaa cagaaaccct
149581 gctccagaga tggcagccaa aaaagacagg gtgccttcc ccctcagctc ccaatctagg
149641 gcagactacc agcatttcccc aagcccatct ctggctctat gttcagaag ttctattcca
149701 agaaagtttgc actgagaatc tgaagcttcc ttcttccact cagctctac tattaaggcg
149761 taaggcttat ccccaagtggc acggccaaag aatactgtatg ctgaatgtcc ttgtccgct
149821 acactcatag ggcagagatt ccatggggagg agtggaaatg ccattccaga aaaggcagaa
149881 aaacagaaat tactgccccaa tccagttaccc caccataaaa gaaggaaaga catctgagaa
149941 aagcatgaca ctgtccccaa aaccacctgc agatgtgg cagtagagc agtagggaga
150001 cttagaggacc tgccttagagg gagaagtgg ccataagaag aaaatctct agttctccct
150061 aaaggacaa actttatgg caacagaaca tgccggaaatg caaggctaa ggcactgtca
150121 aaaacaatga atattttggt ggttaagcaat taatgggtt atggcagctt agtgagagca
150181 acaaactaaa ccataaacca gcttagacata tacaataaa atccaaagaaa gagagagc
150241 agaaggccct tccctgggtt aaaacaaaca tcaaagtctt gtctaaaaaa ctgtccctgc
150301 aaaggaaagca aataatatttggatggact gttggggaaatg ttatccccctt aaaaagctgt
150361 caaaacccaa agagcaattt tcttagcaatt gctgggggtt aacagttggg tatgatacca
150421 aaagaggccaa acaactgaac agatcgagaa aagaggcaatg caaagagagc actgtctaat
150481 gcaactgtat tccaaatttga gagaatgttggccactgtt gttgactccct caggaacaac
150541 atcagaggcc acaaattatg gtggggaaatg gcttcactat atatgtctatc caggcaatata
150601 aacaaaataaa caattaaaca acagtaacat agtgagggggg gcagaaatga gtattgcaac
150661 tagctagaac atatttttaa acaaaaaat tatgtgtcaaa gcagagatata gggaaagaca
150721 gagccatata ccagaaaaaa ggttaagcaag agaaactgccc ttgtgagtg ccaagatgtc
150781 agacatagca gaaaaaaaaac ctcaaaatgg ttttataaa tatgttcaaa aactaaaaga
150841 aaatgtgtt aaaaataaa agatgttgatg ataatttctt gtcaattcaaa aaataaccaat
150901 aatagattaa aatatttttcaaaatggta attaaccaaa tggaaattctt ggggtttaaa
150961 agaaaaataaa caacaataag aacatttgc tagagggaaat gaacaataga ttgttaccag
151021 aaggaaaaat aatcaaataaa acagggttttcatcaacacc aaacctgtct tacaagaaaat
151081 actaaaggga gttcaatctg aaagaaaaagaa cattaacaag caacaggaaaa tcatctgaag
151141 gtacaaaact cactgtaccc tcagatgata ataagtccctt aaaaaacaca gaatattata
151201 acactgtat tatgggtgtt aagctactta tataatggt agaaaagagga aaagatgaac
151261 tgataaaaaa acaattacaa cagctttca agacagtata ataagatata taaataacag
151321 aaagcttaaa agcatataaaa taaatggtaaa atgttaggg ttttttagtt ttcttttgc
151381 ttgttgggtt atttatttttgcataatcactg ttgtttcat cagcataaaaa taatgggtt
151441 taagatagta ttgttgggtt ctcataatcactg ttgttgggtt aaaaatataca atgtataac
151501 aaaaagtgaa gagcaagaaaa ttaaaacata ccacaaaaaa aaatacttcc actaaaaagg
151561 agacagggaaatgaaatggagagaa gatcacaatgg caaccagaaaa ataaataaca
151621 aaatggcaag caagtccctt tttgtcaata ataatattgtt atgttttttttgg actataactt
151681 ccagtaaaaaa gatacagatgg gtttggatgg attaaaaaaa aggacccaaat gatctgttac
151741 ctacaagaaa taaatccat ttataacaat acacagacta aaaataaaatg catggaaat

FIGURE 4 (cont.'d)

151801 gatacttcac gacaatggaa accaaaaaaag aacaggagta gctatacctt tatcagacta
 151861 aatagatttc aagacaaaaa ttgttaagaa aaaccaaata aggtcattat ataatgataa
 151921 agagatcagt taagcaagag gatgtAACAA ttgtaaatAT ATATGCACTC aacattggag
 151981 cacctagata aataaaacaa atattattAG AGCTAAAGAA agatAGACCC CCTCCCCAA
 152041 aacaataata gctgttagatt tcaatgctcc acTTTCAGCA ttggacAGAT CTTCCAGACA
 152101 gaaaatcAGC aaggAAACAT cAGATGTAA CTGAACtATA gACCAATGG GCCTAATAAG
 152161 tatttacaga atatTTcatc caaAGGTTAC agaAGACACA tttttCTCCT tagcacatac
 152221 atcattCTCA agaacAGGCC atatTTAGG tcatGAATCA agtCTAAA CATTCAAAAA
 152281 aactgaaata atCTCAAGCA tCTTCTTGA CCACAAATGG AAtAAAActAG AAACCAATAA
 152341 caaggggaaat ttggAAACT atacAAAC AtggAAAtTA aacaatATGT tcctaAtGA
 152401 taagtgggtc aatgaagaaa ttatGAATTG aattgAAAAT tttttaaaaaa caaatgacAA
 152461 tggAAACATA atgcACCCAGA acCTATGGGA tacaACAAA GcAGTACCAA gagtgatatt
 152521 tccagataag ggcctacatc AAAAAGGAAG AAAAActtCA agtGAATAAC ctgatgtgc
 152581 atcttaaAGA attAAAAGG caAGAGTAA ccaaACCCAA aattAGTAGA agAAAAGAAC
 152641 taataAAAGAT cacAGTAGAA atAAATAAAA ttggACTTCT gCTCCAAGAT ggcctaAtAG
 152701 aaacAGCTCC agtCTGcAGC tcccAGCATG attGGCAGACAG aAGATGGGTG atttCTGcAt
 152761 ttccAACTGA ggtACCGGT tcATCTCATT gggACTGGTT ggACAtGGA tgcAGCCCAT
 152821 ggagggtgag gtGAAGCAGG gtGAAGGAGTC acCTCACCCCC ggaAGCACAAt tgGATTGGGG
 152881 gatttccccCT tCTAGCCAA gggAAAGCCT gACAGACTGT acCTGGAAAAA teggttcaCT
 152941 cccACCCAA tactGTGTT ttccCATAGT cttAGCAACC ggcAGACCAg gagattCTCT
 153001 cccAAAGCCTA gctcatcAGG tcccATGCCC acggAGCCTG gCTACTGCT agcACAGCAA
 153061 tctgAGATCA acCTGcAGG ctGcAGCTGG tggggggggGG gggTGTcAGC cattGCTGAG
 153121 gactgAGTAG gtaAAACAAAG tggcCAGGAA gCTCAAACtG ggcAGAGCCC accGcAGCTC
 153181 agcaAGGCt actGcCTtA tagATTCCAC ctCTGTGGC aggGATAAC tgaACAAAAG
 153241 gcAGCAGACA acttCTGcAG atttAAACtG ccCTGcCTGA cAGCTCTGA gagAGCAGtG
 153301 gttGCCCAg catGGCATtC gagCTCTGA aACAGACAGA ctGcCTCtC aAGTGGGTCC
 153361 ctaAAActCCA tGTagCCTAA ctggGAGACA tctccccata gggGCCGACA gACACCTCAT
 153421 acaggTGGGT gCcActCTGG gacaAGCTC tcAGAGGAAG gATCAGGAAG caAtATTGc
 153481 tcttCTGAA tatttGCTGT tctGcAGCCT ctGcTGGtGA tacCCAGGCA aACAGAGtCt
 153541 ggaatGGacc tCCAGCAAAc tCCAGCAGAC ctGcAGCTGA gggACCTGAC tgCTAGAG
 153601 aaaACTAACA aACAAAAGG aAtAGCATCA acAtCAACAA aAAGGACATT cacACCAAAA
 153661 cctcatCTGT agtCACCAAt atCAAAGACc AAAGGTAGAt AAAACCCAA agatGGGGAG
 153721 aaaccAGAGC agAAAAGCtG AAAAttCTAA AAActGAGCA ccGCTTCTCC tCCAGAGGAt
 153781 tgcaACTCCT cacCGGCAAC ggaAtGAAGC tggGTGGAGA atGACTTTGA caAGTTGcA
 153841 gaAGTAGGCT tcAGAAAGTC ggtAATAACA aACTACTCCA aACTAAAGGA gCatGTTCTA
 153901 acccATTGcA aggaAGCTAA AAAACCTtCA AAAAAGGTTA gacaAAAtGGC taACTAGAAt
 153961 aaacAGTGTa gagAGGAAct tAAAtGACtC gatGGAGCTG AAAACCGTGG catGAGGACA
 154021 tcatGATGcA tGcAcAAGtC tAAAtAGCTG attAAAtCAA gTggAAGAAA gaAtAtCAGt
 154081 gactGAAGAt caAAAttAACA AAAtAAAGCA agaAGATAAG attAGAGAAA aAAGAGtAA
 154141 aAgAAAtGAA aAgCACCTCC aAgAAAtAtG ggACTAtGTG AAAAACCtAA atCTACACTt
 154201 gattGGGTGA cctGAAAGtG atGGGGAGAA ggaAAACCAAG ttggAAAACA ctTTcAGAA
 154261 tactATCCAG gagaACTtCC ccaAAActAGC aAGGcAGGCC AACAttCAAAt tCtAAAGAA
 154321 acAGAGAACA ccACAAAGAt AtTCtCAAG aAGAGCAACC ccaAGACACA taAttGTCAG
 154381 cttcaccaAG gttGAAAtGA aggAAAAAAA tGTTAAGGGC agCCAGAGAG aAACGTTGG
 154441 ttAccAAACA AgggAAAGCC AtCAGACTAA aAGTAGCTC tCtCAGCAGAC ACCCTGTAAG
 154501 ccAGAAAGAGA gtagGGGTCA atAttCAACA ttcttAAAGA AAAtAAAtTT CAACCCAGAA
 154561 tttcatatCC agccAAActA agCTtCATAA gTGAAGGAGA aAtAAAtCC ttAcAGACA
 154621 agcaAAAtGtC gagAGAtTTt gtcACCATCA ggcCTGcTT ACAAGAGtCt ctGAAGGAAA
 154681 cactGAACAt ggaAGGAAC aACTGTTACc agCCACTGcA AAAACACGCC ACAttGtAA
 154741 gaccatGAT gACATGAAGA aACTGcAAcA AtTAActGGC AAAAtAAAGcA gCTCACAGcA
 154801 taatGACAGG AtCAAGtTCa cacAtAAcAA tAtTAACtTt AAAtGtAAAt gggCtAAAtG
 154861 cctcaAttAA AgACACAGAC tggcAAAttG catAGAGtCA agACCCAtCA gTGTGCGtA
 154921 ttcAGGAGAC ccatCTCACA tGcAAAGACA cacAtAGGGA tggAGGAAGA tCCACCAAGC
 154981 aaAtGGAAAG ccaAAAttAAAGA AAtAAAttAAAGCA gggGtGcAA tCtAGtCtC
 155041 tgataAAACA gAgTTtAAAC caACAAAGAt ccaAAAGAGc AACAGAAAGCC AttACAtAA

FIGURE 4 (cont.'d)

155101 ggttaaaggga tcaataacaac aagaagaaca aactatccta aatatataatg caaccaatat
155161 gggagcaccc agattcataa agcaagtctg tagagacgta caaagagatg tagacttcca
155221 cacaataata atgggagact ttaacactcc actgtcaata ttagacagat caatgacaca
155281 gaagggtcac aaagatatacc aggacttcaa tttagctatt caccaagtgg acctaataaga
155341 catctacaga actctacacc ccaaatacaca agaatgtaca tacttctcg caccacatca
155401 tacttattct aaaattgacc acataattgg aagtaaaaaca ctcctcagca aatgtaaaag
155461 aacagaaatc acaacaact gtgtctcaga ctacagtca aacaaattag aactctggat
155521 taataaaactc actcaaaatc acacaactac atggaaactg aataacctgc tcctgaatga
155581 ctactggta cataatggaa tgaaggcaga aataaaatg ttcttgaa ccaataagaa
155641 caaagacaca acataccaga ttctccggga cacattaaa gcagtgtgtc cagggaaaat
155701 tatagacta aatgcccaca agagaaagca ggaaagaact aaaatcaaca acctaacaatc
155761 gcaattaaaa gaactagaga agcaagagca aacacattca aaagctagca gaaggcaaga
155821 aataactaag atcagaacag aactgaagga gatagagaca caaaaagcac ttcaaaaaaa
155881 tcaatgaatc caggagctgg tttttaaaaa gatcaacaaa attaataagac cgctagcaag
155941 aataataaaag aaaagagaga agaatcaaata tagactcaat aaaaaaagat aaaggggata
156001 tcaccactga tccccatagaa atacaaacta ccatcagaga atactataaa cacctctaca
156061 taaataaaact agaaaatcta gaagaagggg gaggagccaa gatggccaaa taggaacagc
156121 tccagtctac agtcccacg gtgagtgaca cagaagacgg gtgatttctg catttccatc
156181 tgaggtaccc ggttcatctc actaggaggt gccagacagt gggcacaggt cagtgggtgc
156241 ggcgactgtg tgcgagccaa tgcagggtga ggcgttgcc cactcgggat gtgcaagggg
156301 tcagagagtt cccttccta gtcaaagaaa ggggtgacag atggcacctg gaaattcggg
156361 tcactccac ctgaaatactg cactttcca acgggcttaa aaaacggcgc acctggagag
156421 tatatccgc acctggctt gagggtccta tgcccacggg gtctgtca ttgttagcac
156481 agcagtctga gatcaaactg caaggcagcg gcgaggctgg gggagggcg cctgcccattg
156541 cccaggctt cttagttaaa caaagcagct gggAACCTCA aactgggtgg atcccaccac
156601 agctcaagga ggcctgcctg cctctgttagg ctccacccct tgccggcaggg cacaggcaaa
156661 caaaaagaca gcagtaacca ctgcagactt aatgtccct gtctgacagc tttgaagaga
156721 gcagtggttc tcccagcactg cagctggaga tctgagaacg ggcagactgc ctcctcaagt
156781 gggccctga cccctgaccc cggagcagcc taactgggag gcatccccga gcagaggcag
156841 actgacaccc tacacagccg ggtactccaa cagacctgca gctgagggtc ctgtctgtt
156901 gaaggaaaac taacaaacag aaggacatcc acaccaaaaa cccatctgtc catcaccatc
156961 atcaaagacc aaaagttagat aaaaccacaa agatgggaa aaaacagagc agaaaaacta
157021 gaaactctaa aaggcaaaagc gcctctcctc ctccaaagga atgcagttcc tcaccaggaa
157081 tggaaacaag ctggacggag aatgactttg acgagctgag agaagaaggc ttcatgatgat
157141 caaattactc cgaactacgg gaggacattc aaaccaaaagg caaagaagtt gaaaacgttc
157201 aaaaaattta gaagaatgtt taactagaat aaccaataca gagaagtgtc taaaggagct
157261 gatggagctg aaaaccaagg ctgcagaact acgtgaagac tcaggagccg atgcgtatcaa
157321 ctgaaagaaa gggtatcagc gatggagat gaaatgaatg aaatgaagtg agaaggaaag
157381 ttttagagaaa aaagaataaa aagaatgaa caaacctcc aagaaatatg ggactatgt
157441 aaaaagacca atctacatct gattggcgtt cctgaaagtg acggggagaa tggaaaccaag
157501 ttggaaaaca ctctgcagga tattatccag gagaacttcc ccaatctagc aaggcaggcc
157561 aacattcaga ttcaagaaat acagagaacg ccacaaagat actcctcgag aagagcaaca
157621 ccaagacaca taattgtcag attcacaaa gttgaaatgt agggaaacaat gttaaaggc
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158161 caagacccat cagttgtctg tattcaggaa acccatctca cgggcagaga cacacatagg
158221 ctcaaaataa agggatggag gaagacctac caagcaaatg gaaaacaaaaaaa aaaaaggcagg
158281 ggttgcatac ctagtctctg ataaaacaga cttaaaacca acacagatca aaagagacaa
158341 agaaggccat tacttaatgg taaaggatc aattcaacaa gaagagctaa caatcctaaa

FIGURE 4 (cont.'d)

FIGURE 4 (cont.'d)

165001 cagagggatt gcttgagacc agcctaggca agaaagttag acctcatctc tacaaaaaat
165061 aaaaataaaaaa gaatcagctg ggagtggtag catacacccctg tagtcccagc tagtcaggag
165121 gctgaggggg gaggatcatt tgaatttggaa aagtcaaggc tgcatgtcgc caagatagt
165181 ccactgcatt gcagcctggg tgacagagcg aaaccctgtc tcaaaaaaaaaa aaaaaaaaaaaa
165241 aagatgataa agttctgggg atcaaattgt a cagcatggtg actatagttt ataactgcgt
165301 tattacttga aattggataa gacgagattt taagcatccc cagcaccccc ccaacatcaca
165361 cacacacaaa tggtaactat aggtggtagt agatatgtt atttgactgt gacaatcagc
165421 attcaatata tacatataatc aaatcatcac attttacccc ttgaaataga aactttgatt
165481 tgtcaatcaa atattttaaa acgaaaataa tcataatatt aatatagcat acagggaaaaa
165541 atttcgtatc tcgactgata cagaaaattt catgataaaaa acactttaaa acaaaaagaaaa
165601 taaaaggaa ctccctcaac ctgataatag gcatctgtgg aaaccffffcag ctagcatcaa
165661 acttaataca gaaaggctgg gtgttcaccc tttgaaccag gaacaagaca aagatgcctg
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165781 aagaataaaa aggcttccaa ataaaagaag aagtaaaact atctctactc gctcatgaca
165841 tgatcttgcata tatagaaaaat gtgcacatgt acacacacac aaaccattag aactaataaa
165901 caagttcagc aagtttgcag aatataaaaat gaatgtacaa aaatcaagtg ttttctata
165961 tactagcaat taacaatctc aaaatgaatt aaaattccat ttacaatagt atcaaacata
166021 aattattnag aataaaaaag tgcactgaaa actacaaaaat attttgaaat aaatcagaaaa
166081 agatttaagt aatggatca cttgaacctg ggaagcagag gttcagtgt gccgagattg
166141 taccactgca ctttagctgg ggcaacagag ggagactcca aagagtcgaa aagaaaagaaa
166201 aagatttaaa taagctgaaa catattctat ggatcagaag acttaatatt gttaaagtga
166261 caatattccc caaattgtatc tacagcttca actcaaccccc tatcaaaatc ctagcttgct
166321 ttttgctgaa aattgacaag ctgattctat aatttatatg gaatctcaaa ggatccagaa
166381 taacccaaac aatattgaaa aataaaagaac agcgttgggt gattaacatt ttccaatttc
166441 aaaacttact atagcactgc ggtaatcaag cagtgtggca ctgtatagca tgtacattac
166501 agatcagtgg actagaatca atgtccagaa ataaaaccgtt atgtttataa tgaatttactt
166561 tttataagg tgtcaagaca acgcaatggg aaaagaataa tgaattcaac aaatgatgca
166621 tggacaaccg gacatgcaca tgcaacacaa tgaatttggaa ttcttctatc gctccatgca
166681 taaaaactaa ctcaaaaatgg gtcacggatg taaatgaaaa gctaaaacta taataatcct
166741 agagggaaaac cttaggatgaa atctttaaga ttttatttggta ggcagtgggt tctcagatag
166801 gaccccaaaa tcacaagcga caaaagaaaat tggacttaaa gttaaataact tttgtgcttc
166861 aaacatcatc aagaaagtga aaacacaacc cgccagaagca ataaaaatgt ctgtaaatc
166921 tgtatccgat tagagacttc tatccaggat atataaataa tgcaattcaa tgataaaaaaa
166981 gataaatagc ccagtttcc aaagagtcaa gcatctgaat atacatctct caaaaaatat
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167101 aagacagtat gaggagatgc tacagggact ctgctgttc acagacatga agcgttgggt
167161 agaatgttagg cagccgcctt tgggacttc acatccccgc cgccccacgc acggtgagct
167221 agtgtttaaa cttagccgag atcaatacac ggcactgtgt gcccgtcaga ccctgcgtg
167281 cccggggggc tgggagagc gggcccccagg agtggggggg aacctggggg tcaggcccc
167341 gccgcgggaa gcccggcagg agcgcgcgaa accttctcca cacccttcca ggcatttgcc
167401 cggccgcatt cagagagccg acccggtgacc cctggcctcc cctagacagc cccgcattgtc
167461 cagatgtgcc gtcccgctg cctcccgca ccactggcca tctctggcc tggcgcgggt
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167581 gaaggagcct ctgtgttcca gaatccatcc tcagatcag cgctgggtg gcctccttcca
167641 ggaaggccctt ctgattctt catgggtcgc ttttcctctg cagactcccg gagcaccctt
167701 gctccaagta ccccaaggatgg cactgagaac ttggggagag cagaggctgt gccttagatt
167761 gtagggagtc cccgcgcgtc caccggaggc cttacaggag cctggccttg ggcgaagccg
167821 aggcaggcag gcaggggcaaa ggggtggaaagc aattcaggag agaacagatg aacgaatgga
167881 tgaggggtgg cagccgcagg tggccctgc ccctggctgc aggaacagac acctcgctga
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168001 cgcgtgaaga gtggggagaga atactgcggg ggcggggggc gggggccagg gacagtgggg
168061 ggccggccggg agcctggagc cagaccggc gggggccggca ccggggccagg gacagtgggg
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